



STIBNITE GOLD PROJECT  
IDAHO, USA

MAX.TSX  
MDRPF.OTCQX

June 2017



# FORWARD LOOKING STATEMENTS

Statements contained in this presentation that are not historical facts are "forward-looking information" or "forward-looking statements" (collectively, "Forward-Looking Information") within the meaning of applicable Canadian securities legislation and the United States Private Securities Litigation Reform Act of 1995. Forward-Looking Information includes, but is not limited to, disclosure regarding possible events, conditions or financial performance that is based on assumptions about future economic conditions and courses of action; and the plans for completion of the Offerings, expected use of proceeds and business objectives. In certain cases, Forward-Looking Information can be identified by the use of words and phrases such as "anticipates", "expects", "understanding", "has agreed to" or variations of such words and phrases or statements that certain actions, events or results "would", "occur" or "be achieved". Although Midas Gold has attempted to identify important factors that could affect Midas Gold and may cause actual actions, events or results to differ materially from those described in Forward-Looking Information, there may be other factors that cause actions, events or results not to be as anticipated, estimated or intended, including, without limitation, the risks and uncertainties related to the Offerings not being completed in the event that the conditions precedent thereto are not satisfied; uncertainties related to raising sufficient financing in a timely manner and on acceptable terms. In making the forward-looking statements in this news release, Midas Gold has applied several material assumptions, including the assumptions that (1) the conditions precedent to completion of the Offerings will be fulfilled so as to permit the Offerings to be completed in or about April of 2016; (2) all necessary approvals and consents, including shareholder approval, in respect of the Offerings will be obtained in a timely manner and on acceptable terms; and (3) general business and economic conditions will not change in a materially adverse manner. There can be no assurance that Forward-Looking Information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on Forward-Looking Information. Except as required by law, Midas Gold does not assume any obligation to release publicly any revisions to Forward-Looking Information contained in this news release to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

Forward-Looking Information involves known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Corporation to be materially different from any future results, performance or achievements expressed or implied by the Forward-Looking Information. Such risks and other factors include, among others, the industry-wide risks and project-specific risks identified in the PFS and summarized above; risks related to the availability of financing on commercially reasonable terms and the expected use of proceeds; operations and contractual obligations; changes in exploration programs based upon results of exploration; changes in estimated mineral reserves or mineral resources; future prices of metals; availability of third party contractors; availability of equipment; failure of equipment to operate as anticipated; accidents, effects of weather and other natural phenomena and other risks associated with the mineral exploration industry; environmental risks, including environmental matters under US federal and Idaho rules and regulations; impact of environmental remediation requirements and the terms of existing and potential consent decrees on the Corporation's planned exploration and development activities on the Stibnite Gold Project; certainty of mineral title; community relations; delays in obtaining governmental approvals or financing; fluctuations in mineral prices; the Corporation's dependence on one mineral project; the nature of mineral exploration and mining and the uncertain commercial viability of certain mineral deposits; the Corporation's lack of operating revenues; governmental regulations and the ability to obtain necessary licences and permits; risks related to mineral properties being subject to prior unregistered agreements, transfers or claims and other defects in title; currency fluctuations; changes in environmental laws and regulations and changes in the application of standards pursuant to existing laws and regulations which may increase costs of doing business and restrict operations; risks related to dependence on key personnel; and estimates used in financial statements proving to be incorrect; as well as those factors discussed in the Corporation's public disclosure record. Although the Corporation has attempted to identify important factors that could affect the Corporation and may cause actual actions, events or results to differ materially from those described in Forward-Looking Information, there may be other factors that cause actions, events or results not to be as anticipated, estimated or intended. There can be no assurance that Forward-Looking Information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on Forward-Looking Information. Except as required by law, the Corporation does not assume any obligation to release publicly any revisions to Forward-Looking Information contained in this presentation to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

## Cautionary Note

The presentation has been prepared by Midas Gold management and does not represent a recommendation to buy or sell these securities. Investors should always consult their investment advisors prior to making any investment decisions.

All references to "dollars" or "\$" shall mean United States dollars unless otherwise specified. Exchange rates and share prices used, where appropriate, are based on the spot prices as of Feb. 19<sup>th</sup>, 2016.



# Presentation Overview

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- Overview of Midas Gold Stibnite Gold Project
  - How We Got Here
  - Historical Legacy
  - Restoration & Mitigation
  - Surface Mining
  - Ore Processing
  - Tailings Management
  - Monitoring
  - Restoration, Reclamation & Closure
- NPDES Permitting Discussion
  - NPDES Approvals Needed
  - Water-Related Information
  - Issues to Consider
  - Permitting Timeframe
- Open Discussion/Questions





# HOW WE GOT HERE



# MIDAS GOLD'S CORE VALUES

5



## **Safety**

The health and safety of our employees, contractors and the public is of the utmost importance.



## **Community Involvement**

As a proud part of the community, we actively strive to serve the community's needs, to collectively enhance prosperity and well-being.



## **Accountability**

As part of our governance, we ensure that accountability guides all of our actions, decisions, conduct and reporting.

## **Environmental Responsibility**

We go above and beyond what is required; we find practical solutions to manage growth while protecting and enhancing the natural environment.



## **Transparency**

We fulfill our commitments in an open and transparent manner. We aim to be accurate, consistent and straightforward in all information delivered to our stakeholders.



## **Integrity & Performance**

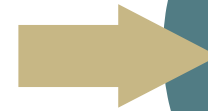
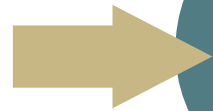
We hold ourselves to high moral standards and strive to fulfill our commitments in an effective and sustainable manner.





# HOW WE GOT HERE

**Exploration  
began in  
2009**







# PLAN OF RESTORATION & OPERATIONS

7

The Stibnite Gold Project  
**BUILT ON THE PRINCIPLE THAT WE CAN**

**Be Stewards of the Environment**  
**Minimize our Impact**  
**Leave the Area Better**







## WE BUILT OUR PLAN WITH CLOSURE IN MIND

We designed our plan to address historical impacts, protect the environment and complete reclamation. We prioritized stream restoration, reforestation, wetland and wildlife habitat construction and enhancement.



# STIBNITE GOLD PROJECT

Coeur d'Alene

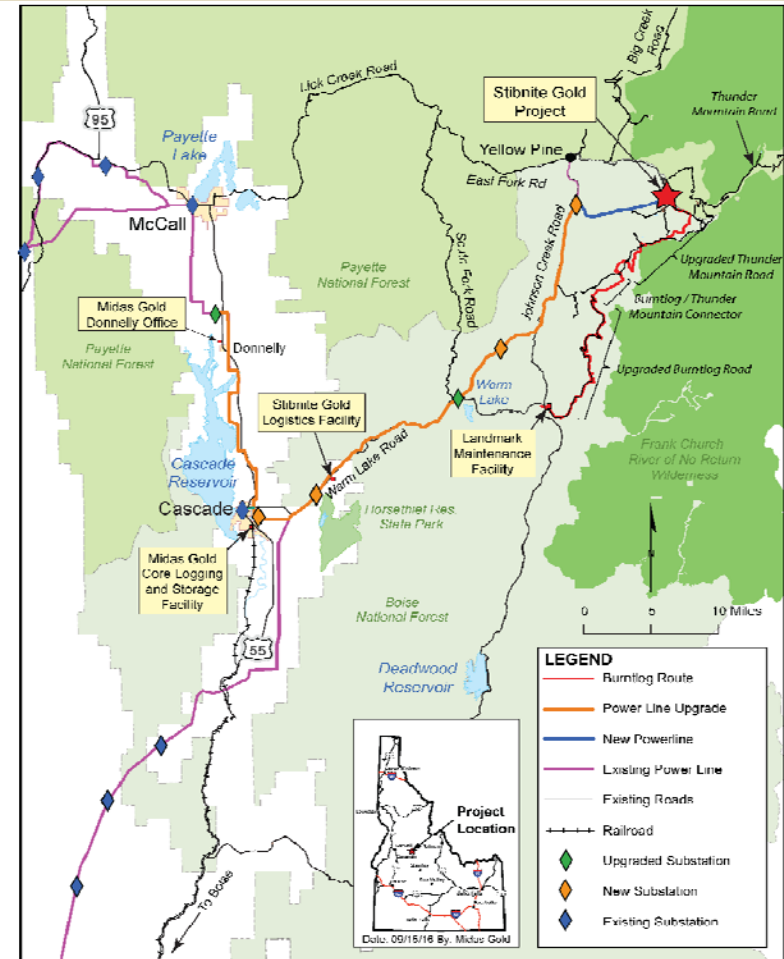
**Stibnite Gold Project**  
Midas Gold Au-Sb

McCall

Cascade

BOISE

IDAHO





# A SITE IN NEED OF REPAIR

**10.5 million tons** of spent ore and unconstrained tailings left behind

**Abandoned** open pits, tailings, waste dumps, smelter site, town sites, heap leach pads, contributing to degraded water quality

It would require **massive effort** to **clean-up** the site & get fish back.

**Forest fire damage**

contributing to erosion and sediment run-off

**Hundreds of tons of sediment** erode into the river each year.

**Fish blocked** from spawning area since 1938





# OUR PLAN TO RESTORE THE SITE

**Repair over**

**50,000** linear feet of  
stream channel

Add natural contouring, **new soil &  
vegetation** to foster growth

**Leave natural gradient  
& vegetation** for slope  
stability & erosion reduction

Build over **454 acres of wetland  
& open water** to enhance wildlife  
habitat

**Repurpose** 7.5 million tons

of spent ore **Reprocess** 3  
million tons of tailings.

**Restore fish passage**  
to historic spawning area





# INDUSTRY CAN REPAIR THE ENVIRONMENT

## ECONOMY + ENVIRONMENT

**Invest** \$1 billion in Idaho

**Provide** well-paid jobs to Idahoans

**Grow** economic opportunity with an estimated \$43 million in direct annual payroll during operations & \$86 million in local and state taxes\*

**Reprocess** historical tailings

**Restore** fish passage

**Repair** historically impacted waterways

**Remediate** areas contributing to water degradation

**Rehabilitate** habitat and natural vegetation

**Reuse** materials on site

\*Based on 2014 Pre Feasibility Study





# PROJECT SCHEDULE

13







## LISTENING TO THE COMMUNITY

We believe transparency and honesty are critical to the process.

To develop the best possible plan, we listened to stakeholders and the local community.





# MINIMIZING IMPACTS

15



## **Protect water quality**

Move people, vehicles, supplies and fuel haulage away from rivers and large fish-bearing streams

## **Minimize footprint**

Limit disturbance by siting facilities and roads on previously disturbed ground



## **Minimize traffic**

Concentrate traffic during work hours, bus workforce, condense shipments

## **Reduce greenhouse gas emissions**

Re-establish grid power to site, enhance solar power generation



## **Plant thousands of trees**

Reclaim burned areas and legacy disturbance, rebuild habitat and minimize sources of sedimentation







**Wanted Immediately**  
**MINERS AND MUCKERS**  
 for  
**YELLOW PINE MINE**  
**BRADLEY MINING CO.**  
**STIBNITE, IDAHO**  
*Days' Pay Wages as Follows—*

	1st 48 Hrs. Per Hour	Last 16 Hrs. Per Hour	Per Day Per 7-Day Week	Per 30- Hour Week
MINER...	84¢	\$1.26	\$7.68	\$53.76
MUCKER...	72¢	\$1.08	\$6.58	\$46.08

Board, \$1.25 Per Day.  
 Family men are being furnished houses as rapidly as possible.  
 Miners to run 5000-foot tunnel on contract will be needed in  
 about one month.

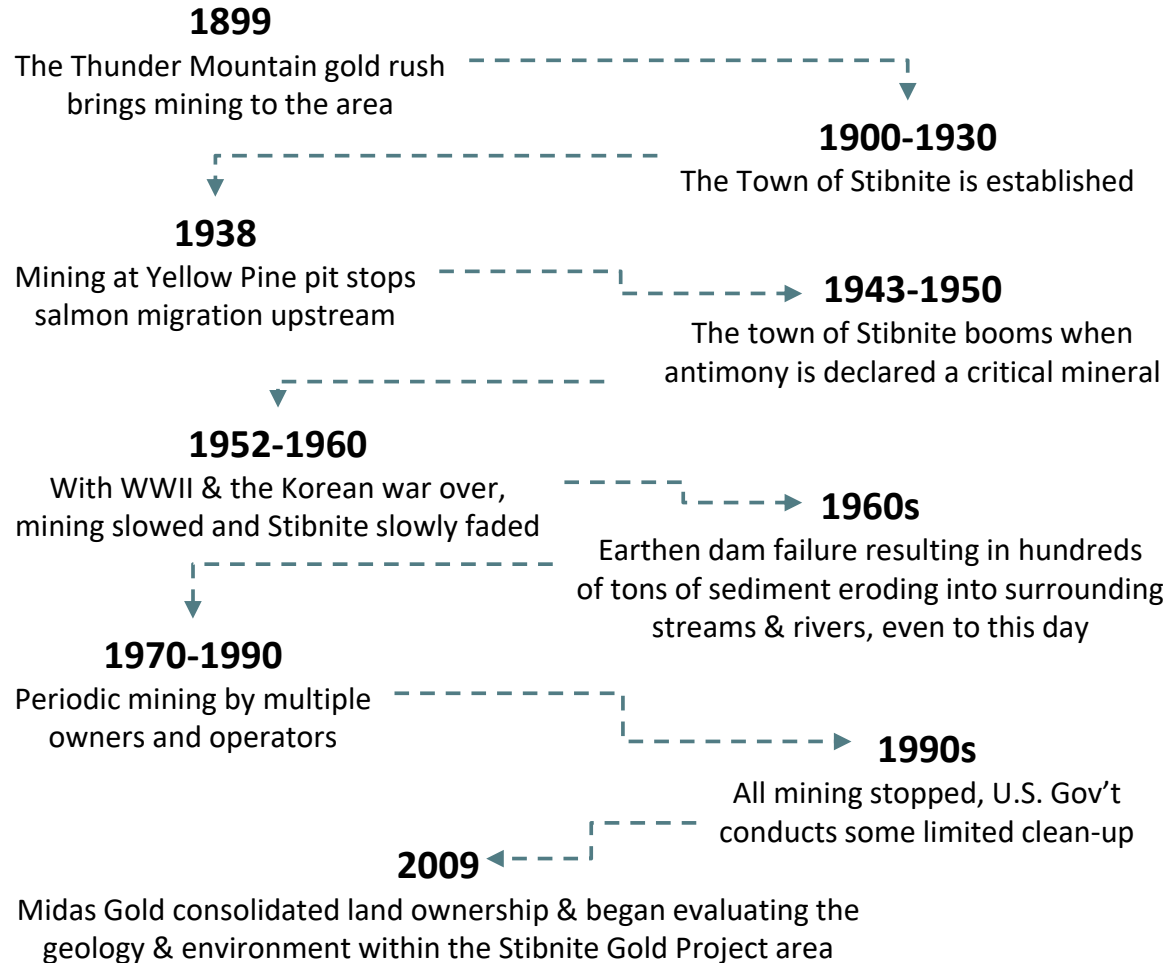


# HISTORICAL LEGACY

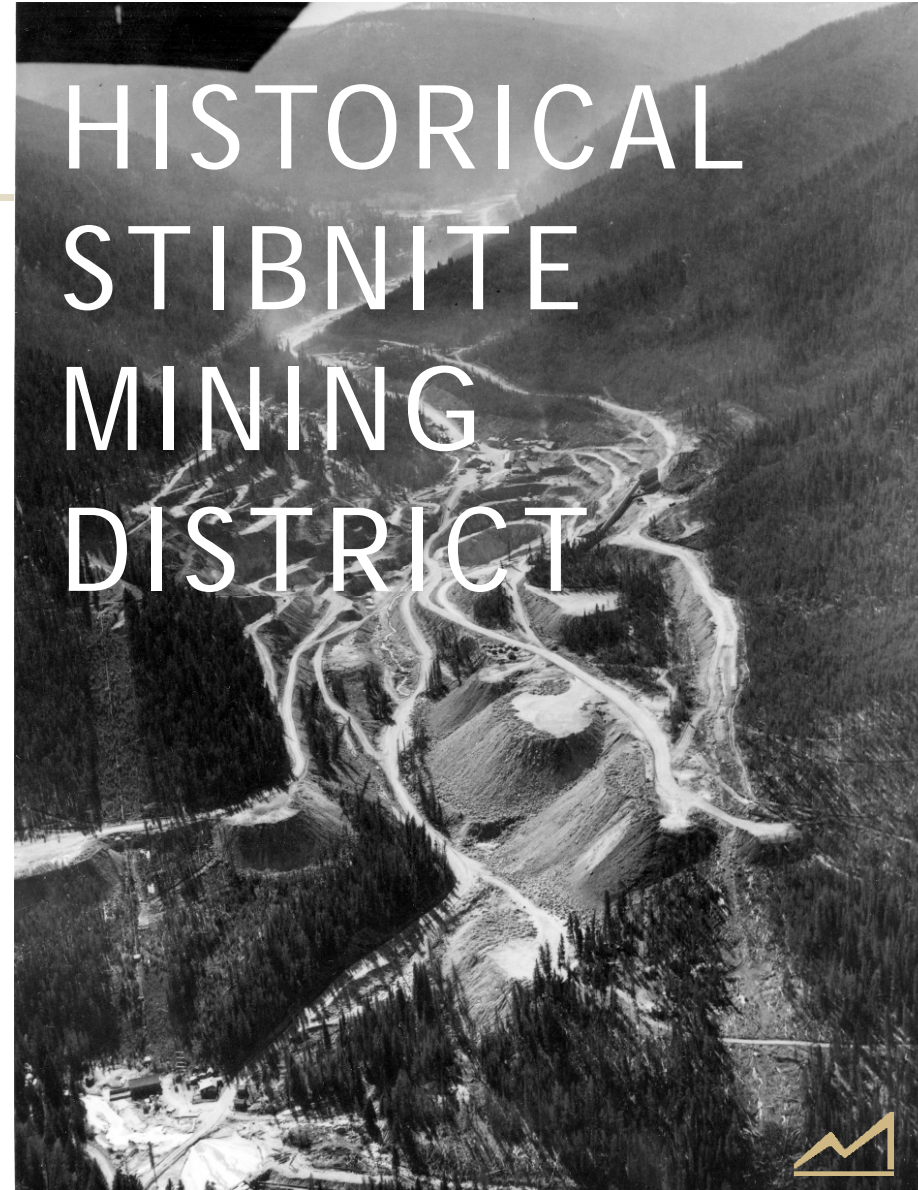




# MINING HISTORY



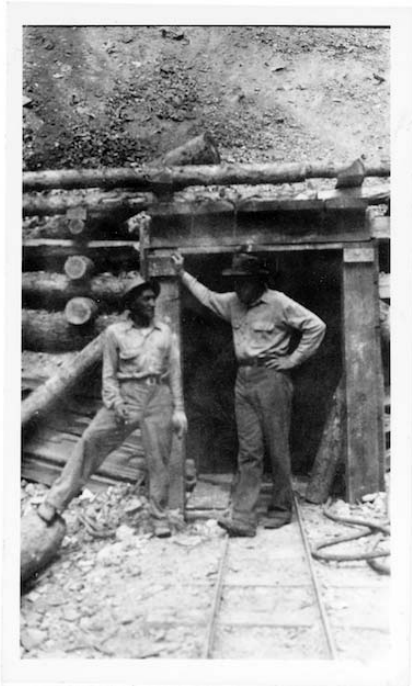
# HISTORICAL STIBNITE MINING DISTRICT





# STIBNITE MINING DISTRICT HISTORY

18



Late 1920's  
Early Underground  
Exploration



1940's & 1950's  
WWII & Korean War  
Antimony & Tungsten



1980's & 1990's  
Gold & Silver





# WHAT WAS LEFT BEHIND

19



Unreclaimed areas



Fish unable to migrate to spawning grounds



Tailings, waste & sedimentation potential sources of degraded water quality





The logo features a stylized landscape divided into four quadrants by a dark blue cross. The top-left quadrant shows a dark, leafless tree branch against a light blue sky with diagonal lines. The top-right quadrant shows a green mountain peak with a forest of small trees. The bottom-left quadrant shows a blue lake in a valley with brown and green hills. The bottom-right quadrant shows a dense forest of green trees. The text "RESTORATION & MITIGATION" is centered across the middle in white, flanked by thin horizontal lines. At the bottom, a dark blue banner contains the text "SINCE 1919" on the left and "THE FUTURE" on the right. In the center of the banner is a circular emblem with the word "STIBNITE" in large, orange, stylized letters and "IDAHO" in smaller, yellow, block letters below it.

# RESTORATION & MITIGATION

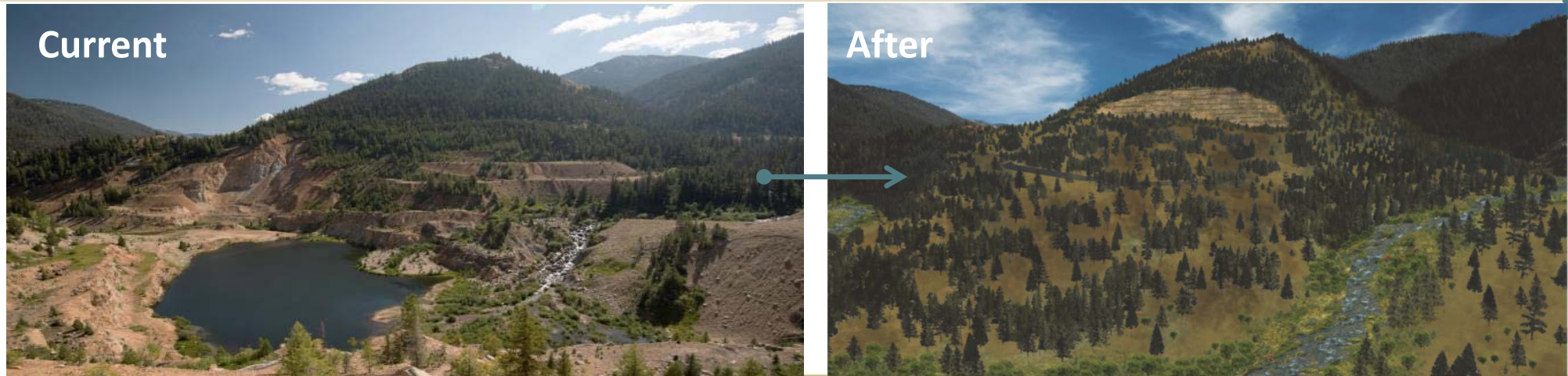
SINCE 1919

**STIBNITE**  
IDAHO

THE FUTURE



# CONCURRENT RESTORATION & MITIGATION



Restoration Activity	Amount	Construction	Early Operations	Mid Operations	Late Operations	Closure
Legacy Facilities Cleanup & Water Quality Improvement	>10.5 million tons	●	→			→
Restore Fish Passage	29,540 linear feet	●	→			
Early Fish Passage & Sediment Control Improvement	58+ bridges/culverts	●	→			
Stream Channel & Riparian Habitat Restoration	51,350 linear feet	●	→			→
Wetlands Restoration	454 acres	●	→			→





# RESTORE FISH MIGRATION

*FOR THE FIRST TIME SINCE 1938*

TODAY, the East Fork of the South Fork of the Salmon River Flows directly into the Yellow Pine Pit, blocking fish migration.

Our plan was designed around how best to connect fish back to spawning grounds. Before mining begins, the fish will be routed back to spawning grounds via a specially designed tunnel.

We will remine the Yellow Pine pit and backfill it to natural gradients so the river may flow and fish may migrate again. In doing so, we will restore fish access to ~6 miles of river and creek habitat.





# MIGRATION HOME

Reconnect  
anadromous fish to  
~6 miles of historic  
habitat

Repair ~50,000  
feet of stream  
channel & riparian  
habitat

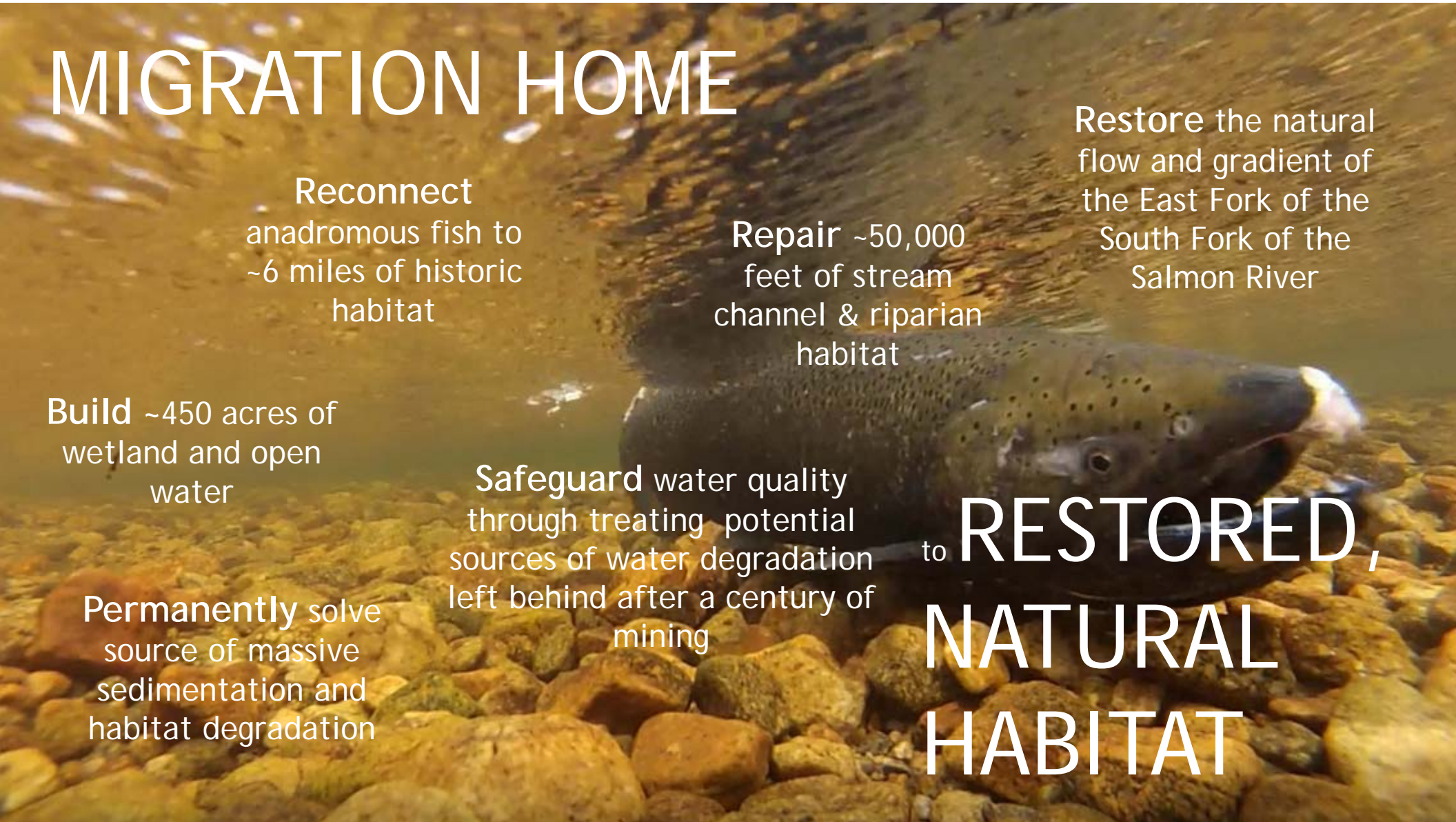
Restore the natural  
flow and gradient of  
the East Fork of the  
South Fork of the  
Salmon River

Build ~450 acres of  
wetland and open  
water

Permanently solve  
source of massive  
sedimentation and  
habitat degradation

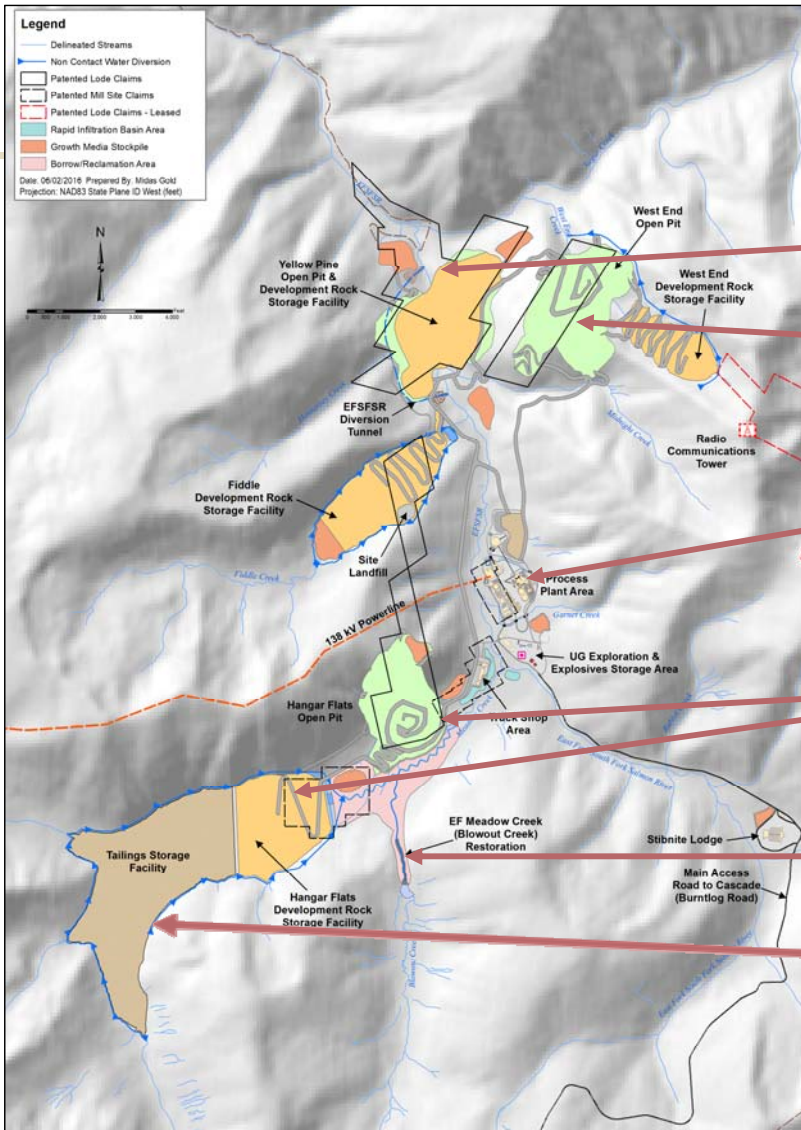
Safeguard water quality  
through treating potential  
sources of water degradation  
left behind after a century of  
mining

to **RESTORED,  
NATURAL  
HABITAT**





# SITE MAP



YELLOW PINE PIT

WEST END PIT

PROCESSING AREA

HANGAR FLATS AREA

Historical Tailings, Spent Ore  
and Development Rock

BLOWOUT CREEK

TSF





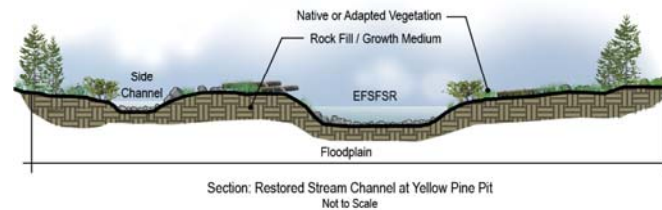
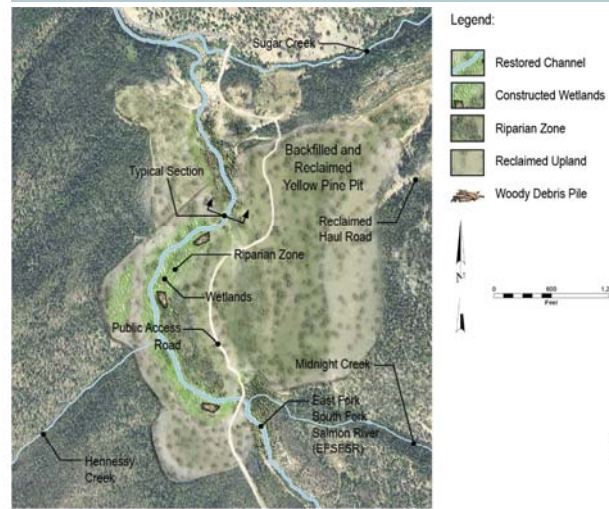
# YELLOW PINE PIT RESTORATION

25

## Current



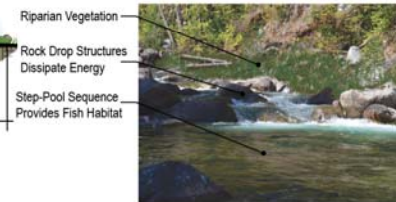
## Closure



Woody Debris for Aquatic Habitat and Bank Protection



Woody Debris Piles: Adds aquatic habitat and collects sediment on floodplain areas



Typical Stream Step-Pool Sequence



Typical Habitat Structures  
Large wood habitat structures maintain pool scour and provide cover for resting fish.



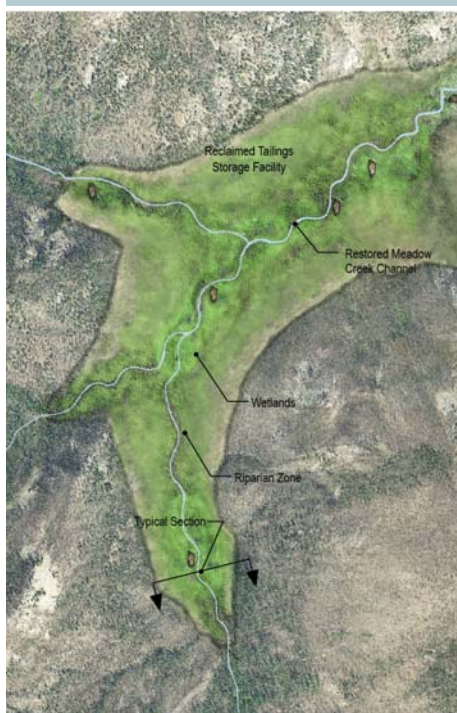
# REMOVE & REPROCESS LEGACY TAILINGS

## Current

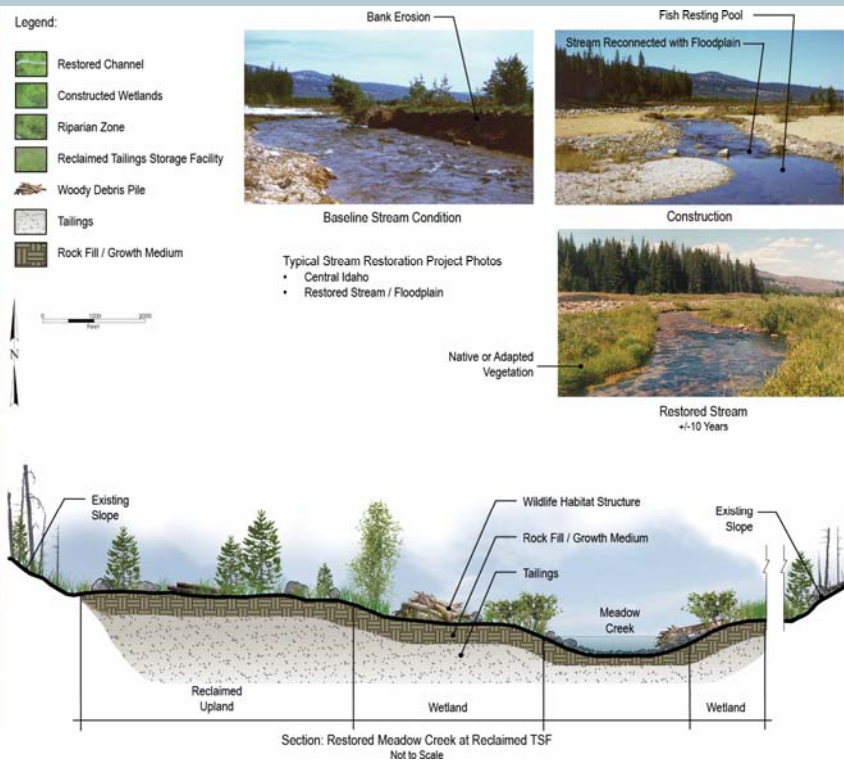


**Reprocess** 3 million tons of historic tailings, removing an existing potential source of water degradation.

## Closure



Plan View: Reclaimed Tailings Storage Facility





# WEST END RESTORATION

27

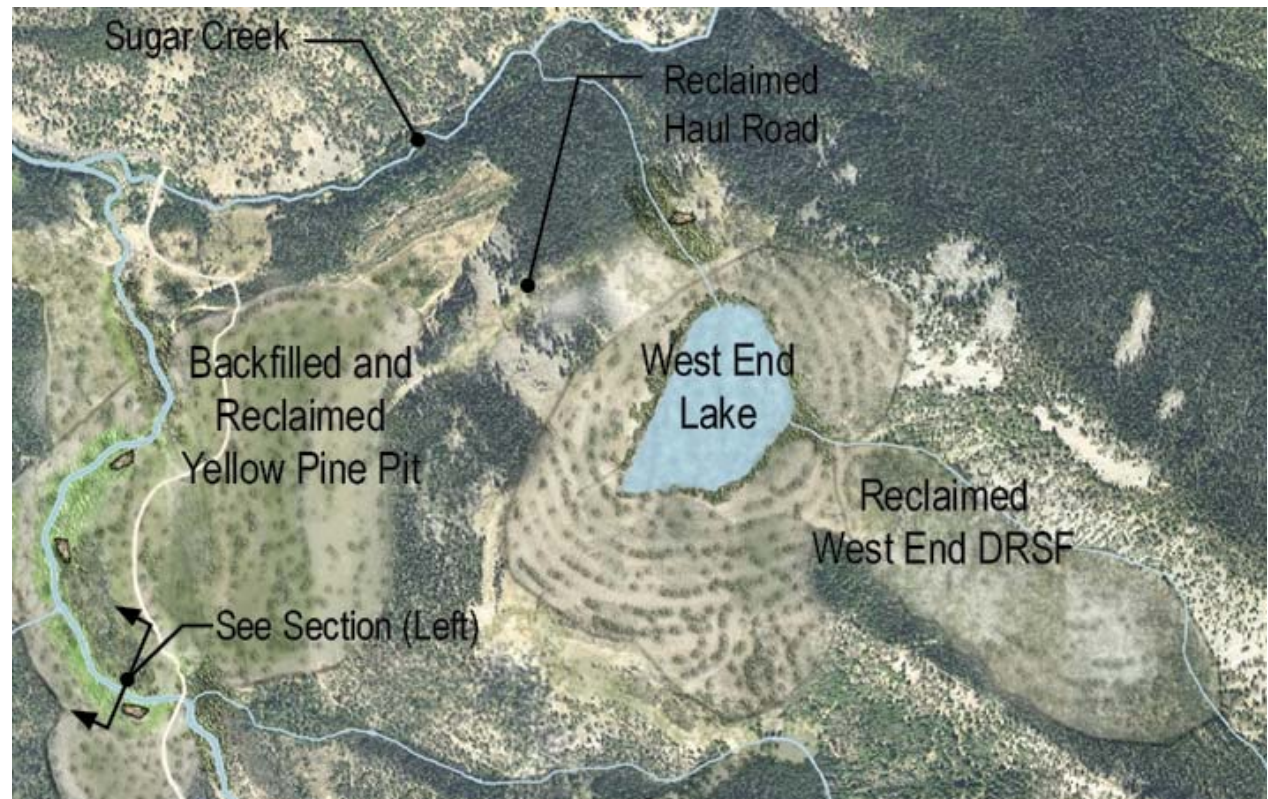
## Current



Development rock from West End will be used to backfill the Yellow Pine pit to restore EFSFSR.

West End pit will fill with water to form a high-elevation lake.

## Closure





# HANGAR FLATS RESTORATION

28

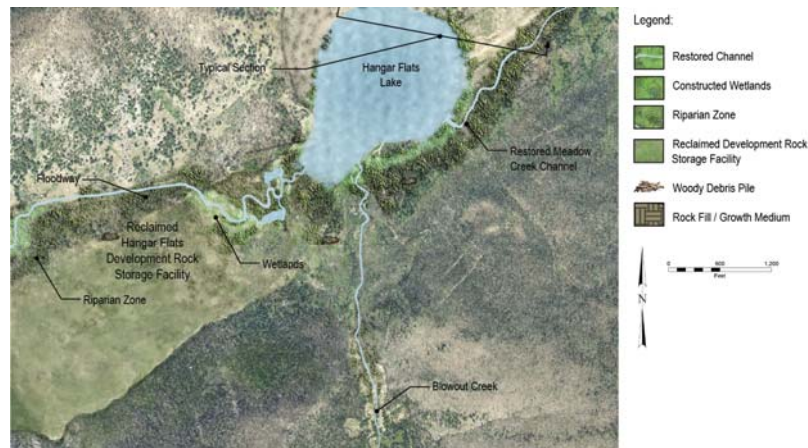
## Current



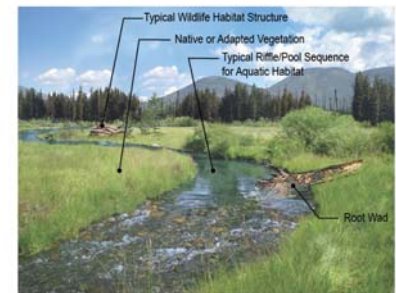
Tailings and spent ore from historical operations will be **reprocessed** and **reused**.

Upon closure, the pit will be **reclaimed** to serve as a sedimentation basin and act as off channel habitat for aquatic species

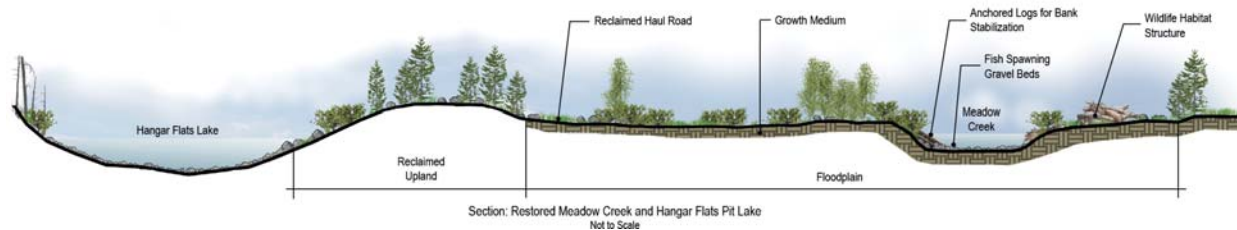
## Closure



Plan View: Reclaimed Hangar Flats DRSF, Meadow Creek, and Hangar Flats Pit Lake



Conceptual Rendering: Reclaimed Meadow Creek Below Hangar Flats DRSF



Riparian reclamation around the pit will  
**improve aquatic habitat**





An aerial photograph of a river valley. The river is a light brown color, indicating sedimentation, and flows through a valley. The surrounding hills are covered in dense forest, with some areas appearing brown, possibly due to fire or deforestation. The text 'REPAIR WATER QUALITY' is overlaid in large white letters on the left side of the image.

# REPAIR WATER QUALITY

## BLOW OUT CREEK RESTORATION

**1965** Meadow Creek Reservoir failed and caused a massive ongoing source of sedimentation

Degrading water quality and aquatic habitat

Impairing the wetlands

Dropping the water table 14 feet

## OUR PLAN

**Permanently Repair** the cut and source of sedimentation

**Rehabilitate** wetlands and habitat by raising the water table in the valley

**Restore** stream channels and riparian habitat



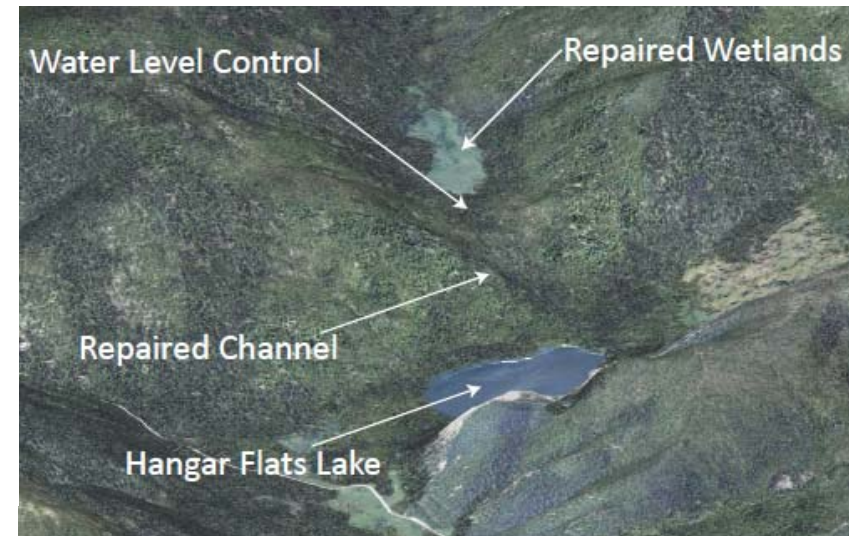
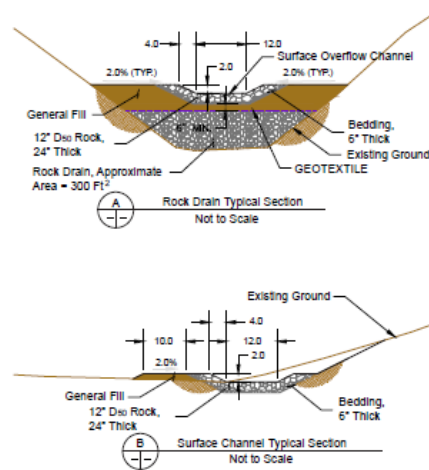
# BLOWOUT CREEK RESTORATION

30

## Current



## Closure



Long term solution to improve water quality, stabilize the water table and re-establish wetland habitat





A photograph of three workers in safety gear (hard hats and high-visibility vests) standing on a rocky shore, looking out over a calm lake. The worker in the center has a vest with 'ACI Services Environmental Contractors' written on it. The scene is framed by evergreen trees on the right and a rocky, sparsely vegetated shoreline in the background.

# SURFACE MINING



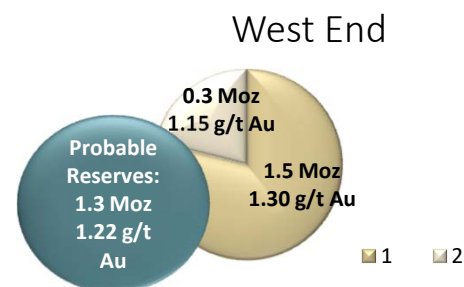
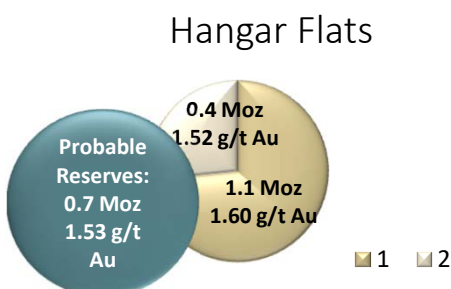
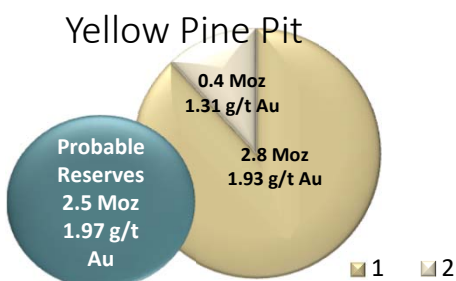
# ONE OF THE BEST GRADE GOLD PROJECTS IN THE USA\*

1.6<sub>oz</sub>  
gold per ton

High grade gold allows operations  
to sustain market fluctuations.

## 4 Identified Deposits

Yellow Pine Pit  
Hangar Flats  
West End  
Historical Tailings





produce  
**4+ million ounces of gold\***


\* Based on 2014 Pre Feasibility Study

79  
Au

GO FOR THE GOLD


SHINING EXAMPLES OF A VERSATILE METAL

### AEROSPACE



A thin layer of gold is applied to spacesuits and many spacecraft components to protect astronauts and their ships.

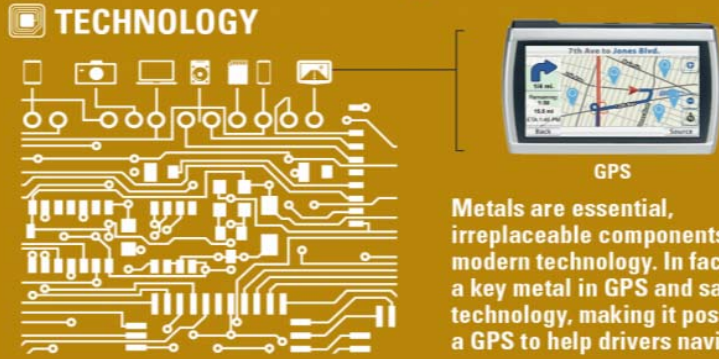
### HEART HEALTH



**PACEMAKERS**      **HEART STENTS**

Gold is essential to sophisticated medical equipment, including life-support devices, pacemakers and heart stents, and is used in the treatment of heart disease.

### TECHNOLOGY



**GPS**

Metals are essential, irreplaceable components of modern technology. In fact, gold is a key metal in GPS and satellite technology, making it possible for a GPS to help drivers navigate.



produce  
~100 million pounds of antimony\*


\* Based on 2014 Pre Feasibility Study

**MIDAS GOLD**


# ANTIMONY

ANTIMONY IS A METAL THAT OCCURS NATURALLY IN THE EARTH'S CRUST.  
THE PRODUCT IS MOSTLY SOLD COMMERCIALY AS METAL INGOTS OR AS ANTIMONY TRIOXIDE POWDER.


**Lead alloyed with antimony is stronger and harder - especially useful in the lead-acid batteries found in cars.**



**Antimony acts as a decolourizing agent when added to optical glass. This is useful in cameras, binoculars, and iPad screens.**



**When mixed with antimony, plastics and electronics can be used in applications where they would otherwise **MELT OR CATCH FIRE.****



- Furniture upholstery, insulation and decorative foams, and building materials
- Optical cables, main adaptors, portable electronics
- Plastic casings, resin circuit boards, switches and components
- Clothing and hospital linen
- Seats, cables, and plastic in motor vehicles
- Forest fire flame retardants



# MINE DEVELOPMENT & PIT SEQUENCING

35

Generally, we will mine in the following sequence:



1. Process legacy tailings & Yellow Pine

2. Hangar Flats

3. West End

## General sequencing of mining is based on

- Prioritizing fish passage to spawning grounds
- Restoring river using development rock from West End
- Balancing different grade & ore types
- Maintaining a stable workforce & equipment requirements
- Economics of extraction & processing

12-15 years of surface mining  
20-25,000 tons ore/day



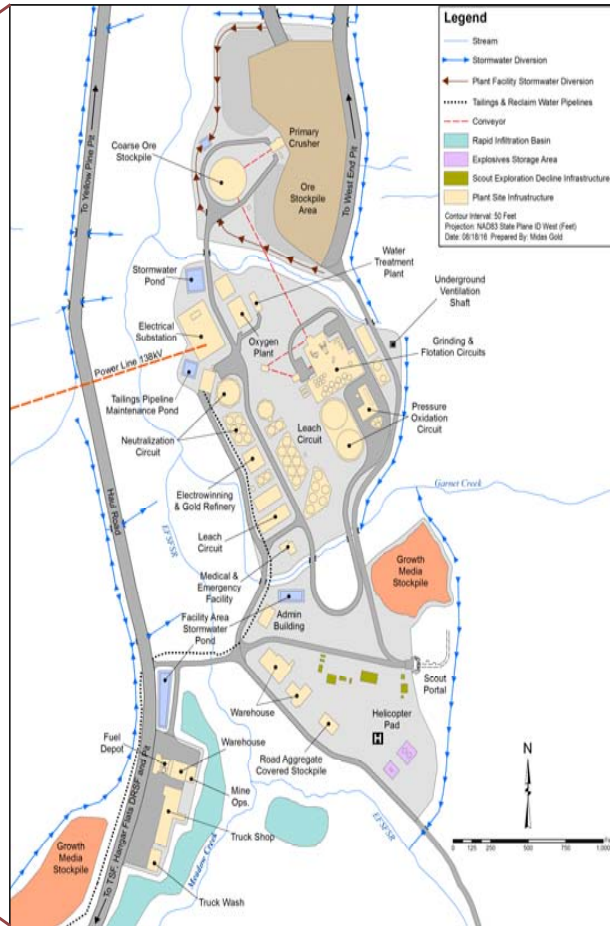




# ORE PROCESSING



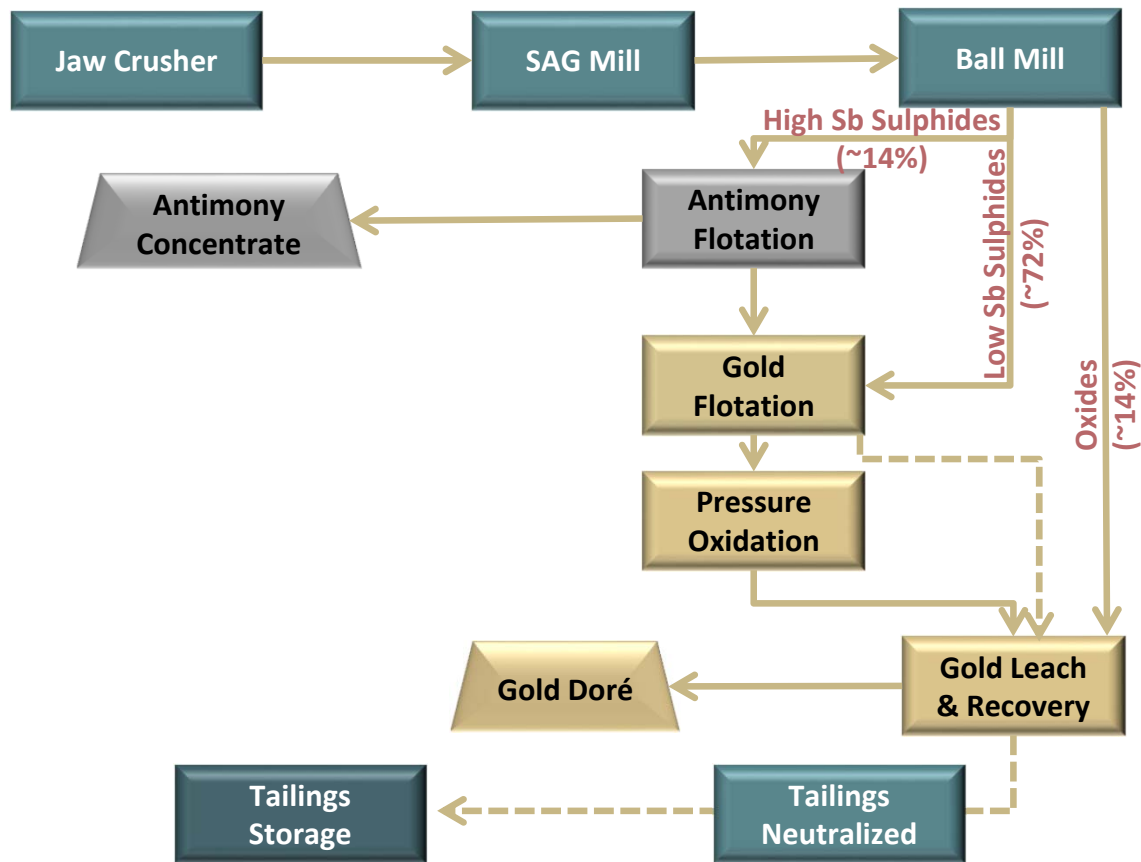
## 37





# ORE PROCESSING

38



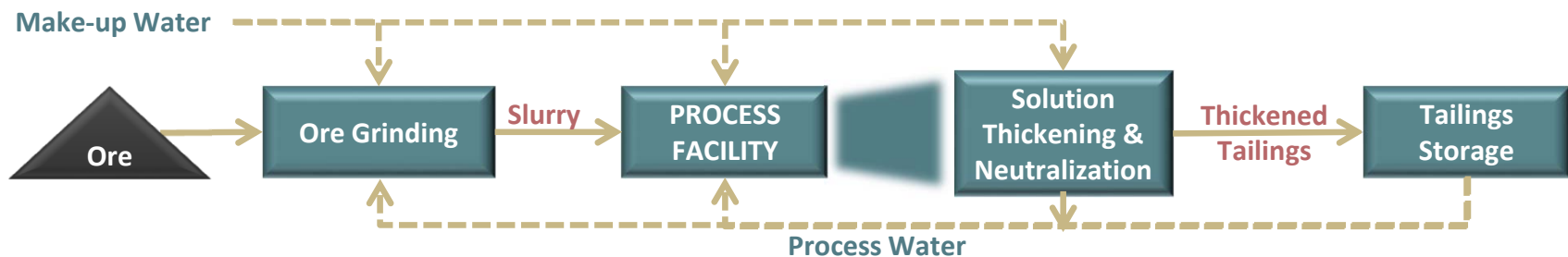
The PFS is intended to be read as a whole, sections should not be read or relied upon out of context. The information in this presentation is subject to the assumptions, exclusions and qualifications contained in the PFS. See "Regulatory Information" at the end of this presentation.





## Maximize **recycling & reuse** of water to reduce water consumption

Two-thirds of water requirements are covered by recycled process water<sup>(1)</sup>



(1) Process Water = Water used for ore processing (incl. precipitation falling on TSF)



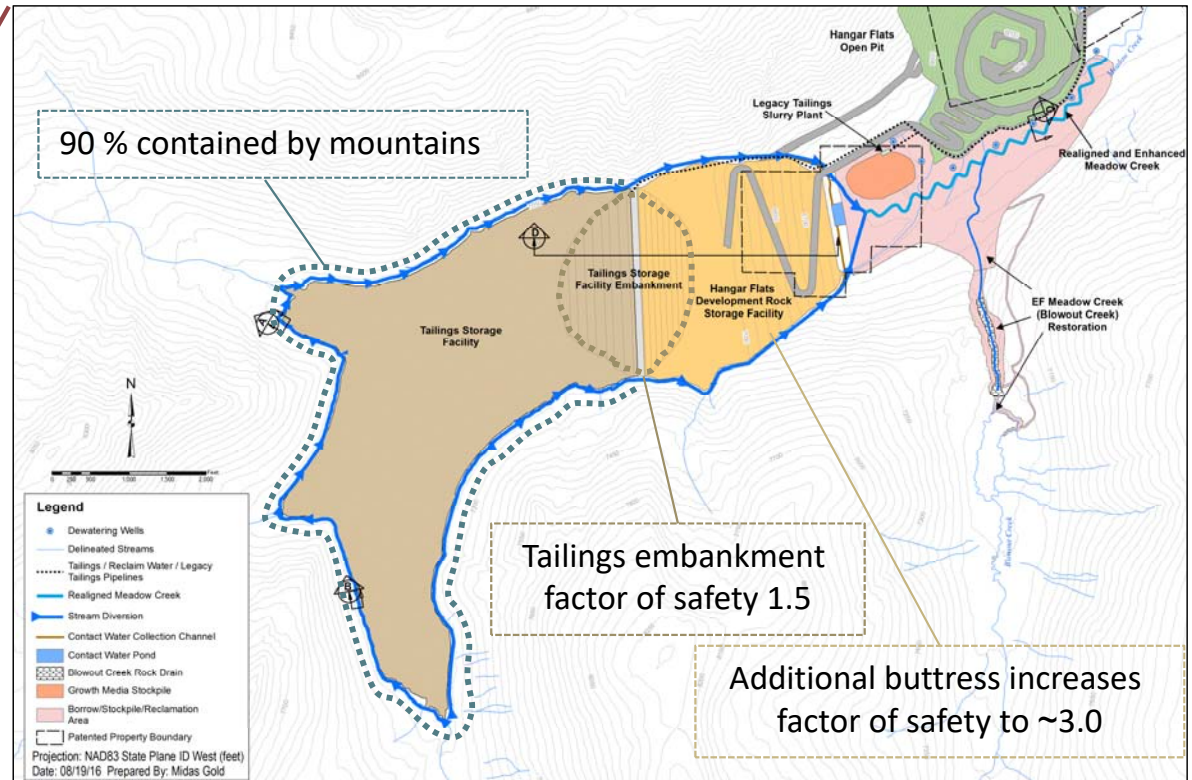
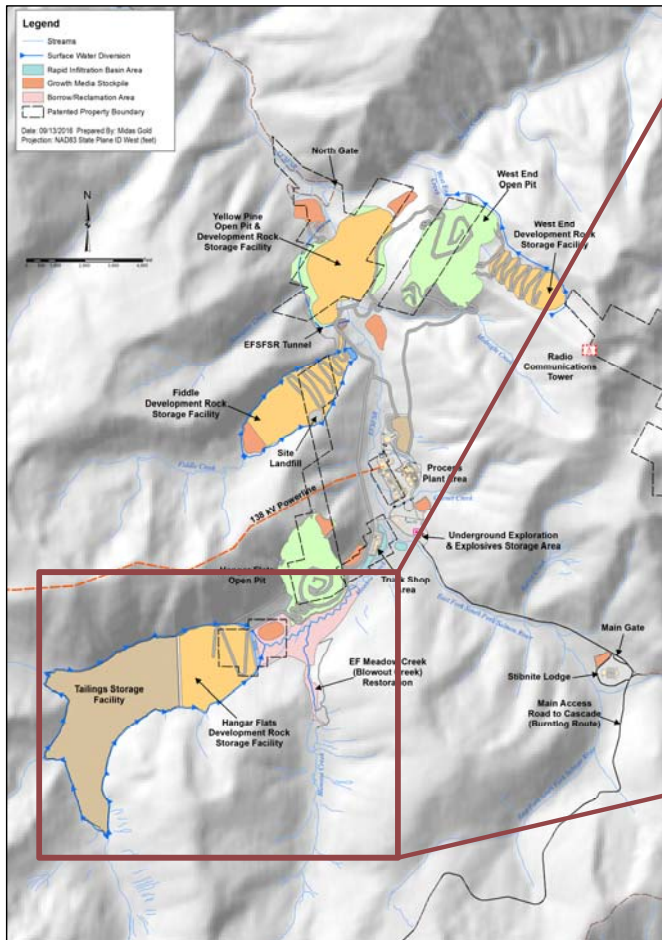




# TAILINGS MANAGEMENT



# THICKENED TAILINGS MANAGEMENT



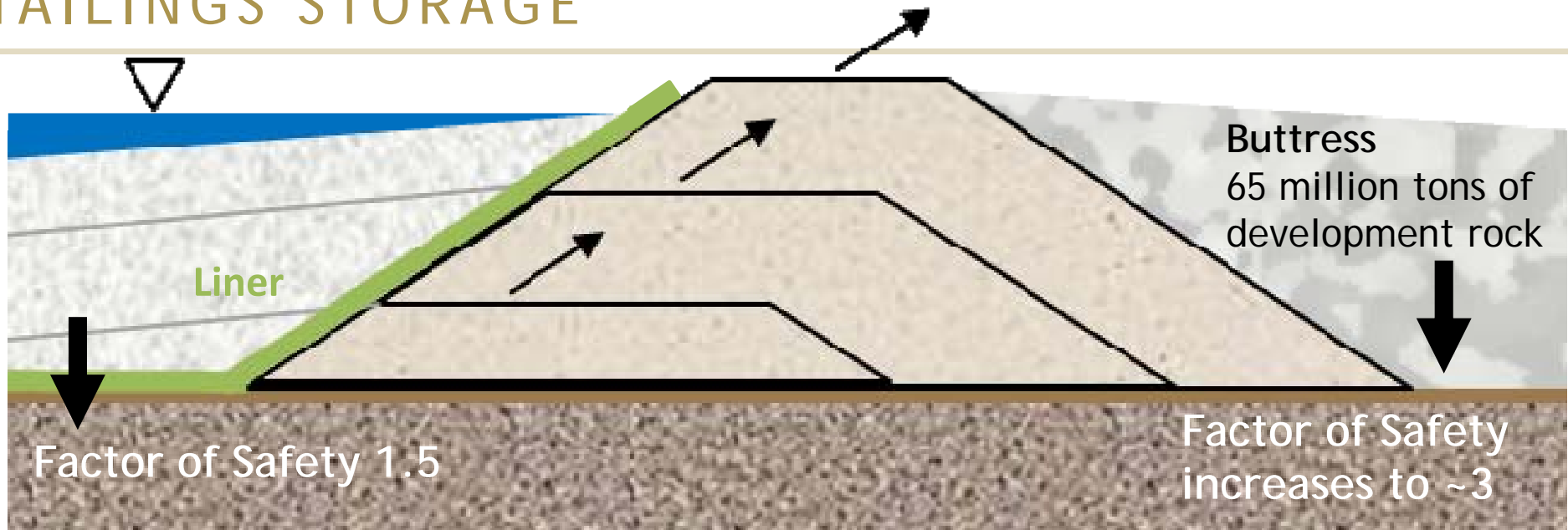
“Keep Clean Water Clean” principle during operations





# TAILINGS STORAGE

42



## Designed with the highest safety criteria.

- Buttressed by 65 million tons of development rock, which substantially increases the overall factor of safety.
- 90% contained by mountains
- Rockfill embankment material enhances stability vs. soil construction
- High static factor of safety is superior to Idaho's 1.5 requirement
- Downslope method of construction for enhanced stability
- Fully lined to protect water quality
- Area designed to become a wetland & riparian habitat.





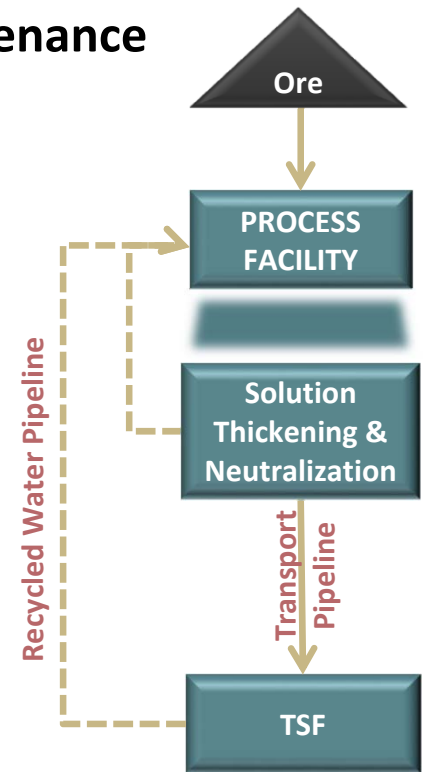
# TRANSPORT & RECYCLE WATER PIPELINES

43

**Pipelines routed adjacent to haul roads to enable monitoring and maintenance**

**Additional safety measures for pipeline carrying tailings:**

- Carbon steel pipe (or equivalent) lined with high-density polyethylene (HDPE)
- Secondary pipeline containment through geosynthetic-lined trench
- Emergency containment catchment basins along alignment at low points
- Double-contained pipe and sleeves when routed across streams



*Highest level of security measures for containment in the unlikely case of a spill or leak*



Steel pipe + Lined trench



# TSF OPERATION

44

## Operating with the ultimate closure in mind:

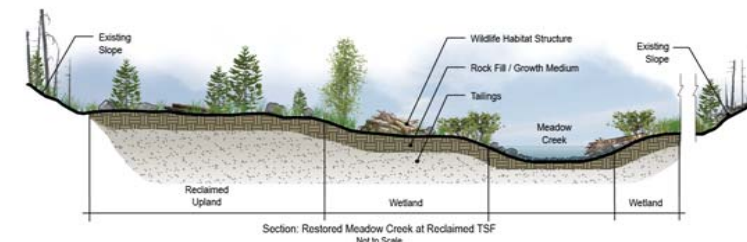
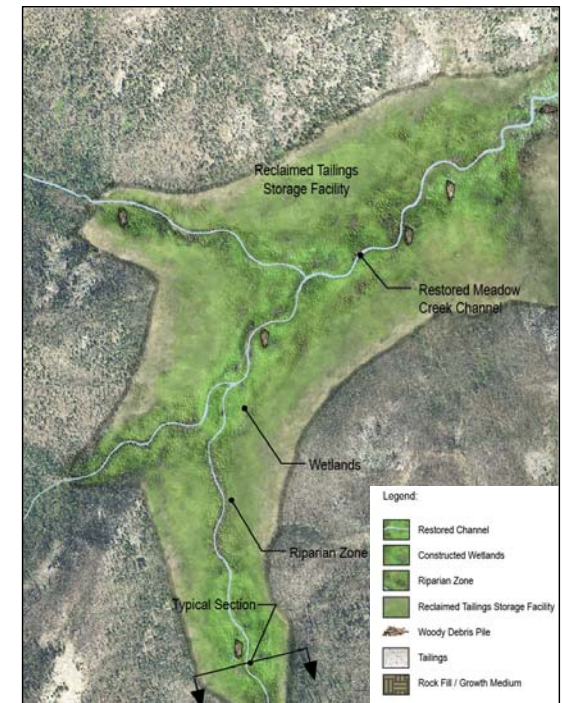
- Reclamation and rehabilitation as wildlife and fish habitat including meandering stream within wetland and riparian habitat

## Early and faster reclamation:

- Minimizing closure water management requirements by speeding consolidation of thickened tailings
- Enhanced in-stream water quality through operating TSF as zero discharge facility
- Creation of TSF surface that allows natural drainage at closure

## Wildlife protection during operations:

- TSF surrounded by wildlife exclusion fencing
- Neutralization of tailings to levels protective of wildlife





A long-exposure photograph of a river flowing over rocks, creating a blurred, silky effect in the water. The river is surrounded by a rocky shoreline and dense green foliage in the background. The word "MONITORING" is centered over the water, flanked by two horizontal gold lines.

# MONITORING



# MONITORING

46

*We will actively monitor environmental conditions throughout Project life until ~5 years past final reclamation, making information publicly available*

## Meteorological

- Temperature, solar radiation, relative humidity, precipitation, barometric pressure, wind speed & direction

## Surface Water

- Metals & minerals, TDS, TSS, hardness, color, dissolved oxygen, pH, specific conductivity, temperature, turbidity

## Groundwater

- Metals & metalloids, inorganics, TDS, dissolved oxygen, pH, conductivity, temperature, turbidity

## Fisheries

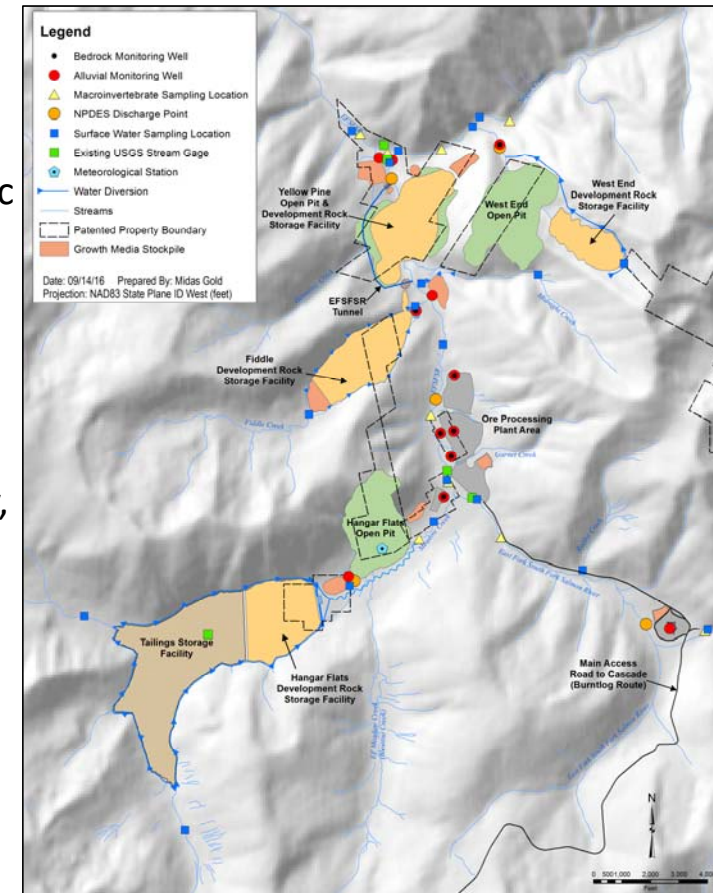
- Habitat conditions, fish surveys, macroinvertebrates

## Wildlife

- Presence, sightings and mortalities of birds, mammals, reptiles, amphibians

## Reclamation Success

- Including vegetation, etc.







# RESTORATION, RECLAMATION & CLOSURE



# RECLAMATION COMMITMENT

48

Remediation & reclamation begin before mining  
& continue throughout the life of mine.

Progressive Reclamation  
During Construction

Reclamation Concurrent with  
Operations

Final Closure & Reclamation





# RECLAMATION AND CLOSURE OBJECTIVES

49

**RESTORATION** activities concurrent with all mining phases

**MINIMIZE DISTURBANCE** levels by siting facilities within existing disturbance to the extent practicable, and implementing concurrent and timely reclamation

**PROTECT THE PUBLIC & WILDLIFE** through proper site closure, exclusion fencing and reclamation

**RECLAIM DISTURBED AREAS** for recreation and wildlife habitat

**PREVENT** the establishment and spread of noxious weeds

**CONSISTENCY** with applicable National Forest Land Resource Management Plan (LRMP) provisions, along with Idaho Department of Lands (IDL) regulations and standards





## 50

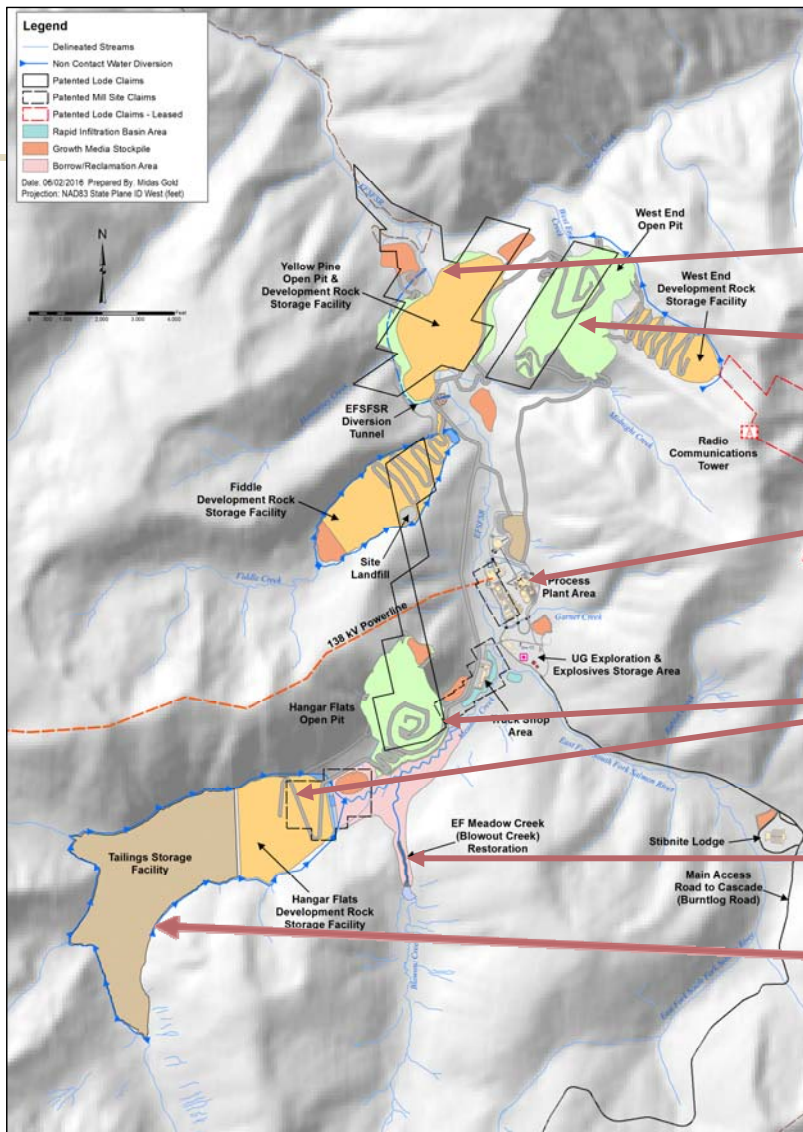


A scenic photograph of a river with ducks and a title overlay. The river flows through a lush green landscape, with several ducks swimming in the water. The title "NPDES PERMIT OVERVIEW & TIMELINE" is centered over the image, flanked by two horizontal gold lines.

# NPDES PERMIT OVERVIEW & TIMELINE



# SITE MAP



YELLOW PINE PIT

WEST END PIT

PROCESSING AREA

HANGAR FLATS AREA

Historical Tailings, Spent Ore  
and Development Rock

BLOWOUT CREEK

TSF





# EFSF Salmon River





# NPDES Discussion Outline

1. NPDES Approvals Needed
  1. Construction General Permit – Construction phase
  2. Multi-Sector General Permit – Non-contact water
  3. Industrial Wastewater Permit – Contact and process water; domestic wastewater (lodging area and mill site)
2. Water-related Information
  1. Water quantity – discharge regime for each outfall
  2. Existing water quality – ambient and legacy conditions
  3. Disposal/treatment needs – will differ among outfalls
  4. Effluent water quality – address all parameters of concern relative to water quality standards
3. Issues to Consider
  1. Level of detail
  2. Timing issues
  3. IDEQ's role
  4. WQBEL analysis
  5. EFSFSR tunnel
  6. ESA considerations – salmonids
4. Permitting timeframe



# NATIONAL ENVIRONMENTAL POLICY ACT

55

**Point of Compliance** Transportation Impact Study

Stream Channel Alteration Mine Tailings Impoundment

Forest Plan Amendments **401: Water Quality Certification**

**NPDES: Water Discharges** Native American Consultation

Cultural Clearance **NEPA** Air Quality Cyanide Permit

Power Line ROW **Idaho Roadless Rule**

Idaho Department of Lands Reclamation Approval

Road Use Permit Mineral Material Permit (Borrow Sources)

Endangered Species Consultation **ROD** Water Rights

**404: Clean Water Act**

Detailed Mitigation Plans





# NPDES Approvals Needed

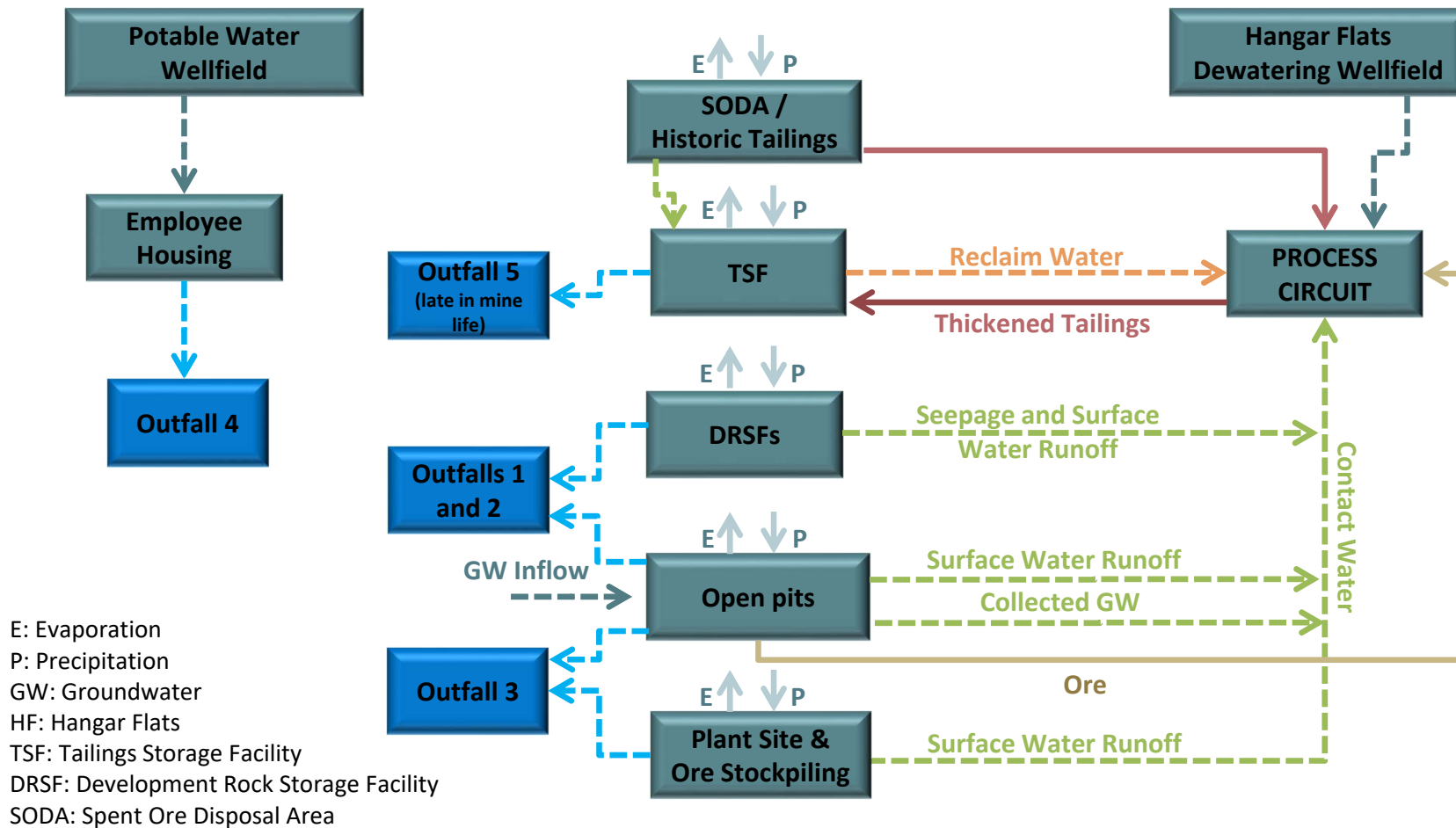
- **Construction General Permit**
  - Address facility preparation activities prior to mining and ore processing
- **NPDES Multi-Sector General Permit**
  - Address non-contact stormwater from regulated portions of the site outside of active mining, processing and storage areas for development rock and tailings
- **NPDES Individual Industrial Wastewater Permit**
  - Address contact water from mining, processing and storage areas for development rock and tailings
  - Address process water (primarily at end of mine life during dewatering of tailings storage facility)
- **Midas is utilizing the valuable guidance provided in the Region 10 EPA Source Book for mining**





# WATER MANAGEMENT

57





# SURFACE WATER MANAGEMENT

58

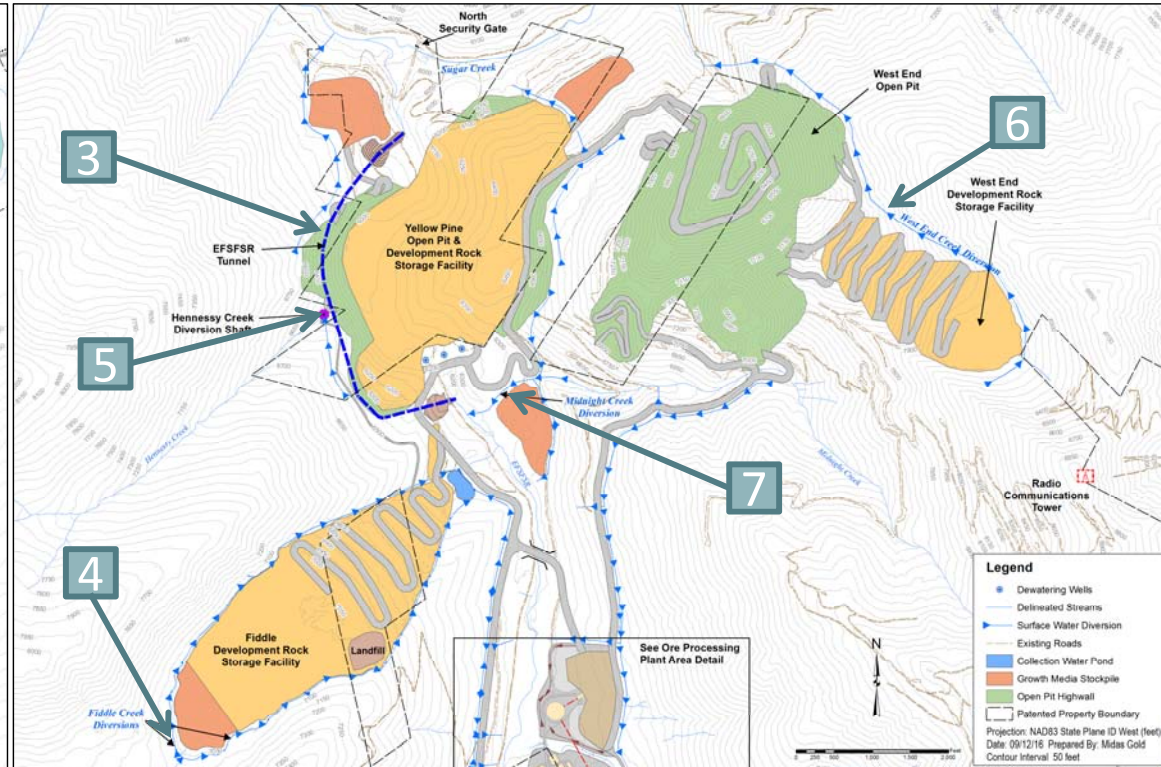
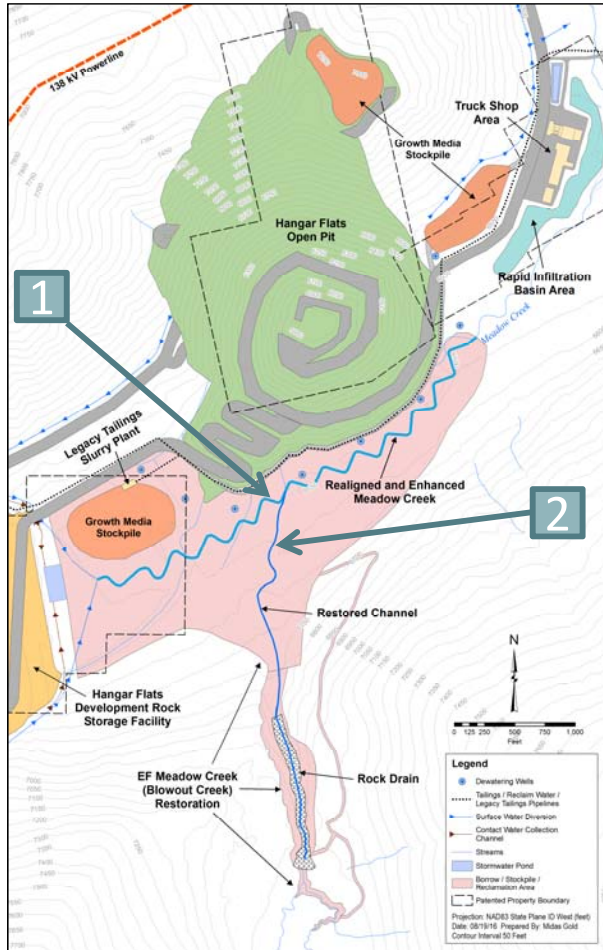
- Primary objective of water management infrastructure:
  - **Preventing** mining facilities from contact with streams and stormwater
  - **Minimizing** erosion and sediment generation
  - **Promoting** fish passage
  - **Rehabilitating** existing areas of previous disturbance
- Increased materials/construction efficiency by Coordinating expansion of TSF, DRSFs & open pit mines with water management infrastructure
- Implementation of water collection & sediment control measures during all mining phases *(to meet or exceed any applicable NPDES/IDEQ permit standards)*





# SURFACE WATER MANAGEMENT

59



- Localized temporary diversions followed by restoration of waterways for

- |                  |                   |                   |
|------------------|-------------------|-------------------|
| 1. Meadow Creek  | 4. Fiddle Creek   | 6. West End Creek |
| 2. Blowout Creek | 5. Hennessy Creek | 7. Midnight Creek |
| 3. EFSFSR        |                   |                   |





# Anticipated Outfalls

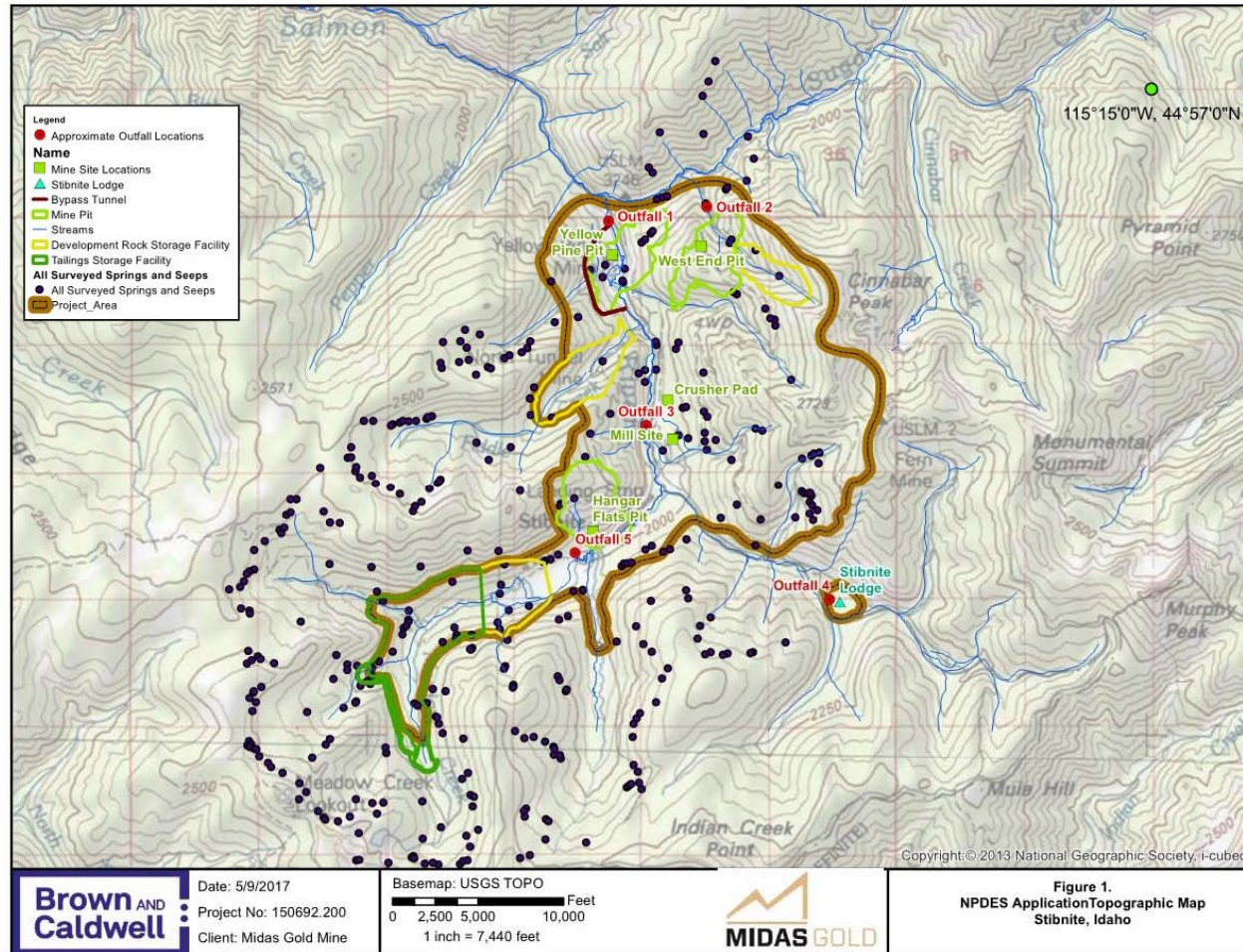
- Outfall 1 – Yellow Pine Pit Area
  - Runoff and drainage from pit, DRSF and associated work areas
  - Contact water from mine excavation activities
  - Seepage water from pit wall
- Outfall 2 – West End Area
  - Runoff and drainage from pit, DRSF and associated work areas
  - Contact water from mine excavation activities
  - Seepage water from pit wall
- Outfall 3 – Mill Area
  - Runoff and drainage from Mill site and Hangar Flats
  - Contact water from ore stockpiles
  - Domestic wastewater from staff facilities at Mill site (options under evaluation)
- Outfall 4 – Stibnite Lodge Area
  - Domestic wastewater from staff lodging and recreational facilities
- Outfall 5 – Tailings Storage Facility
  - Dewatering of TSF at mine closure (treated process water)





# Anticipated Outfalls

61

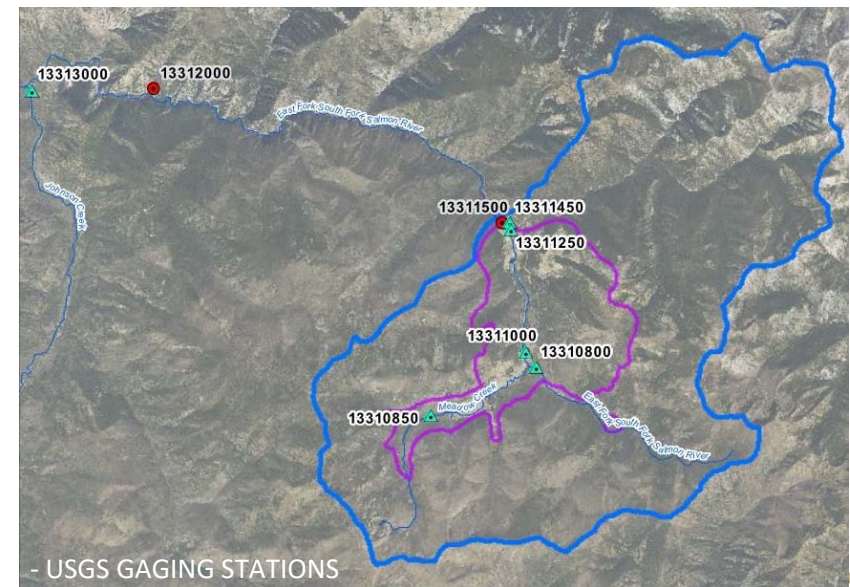




# Water Quantity

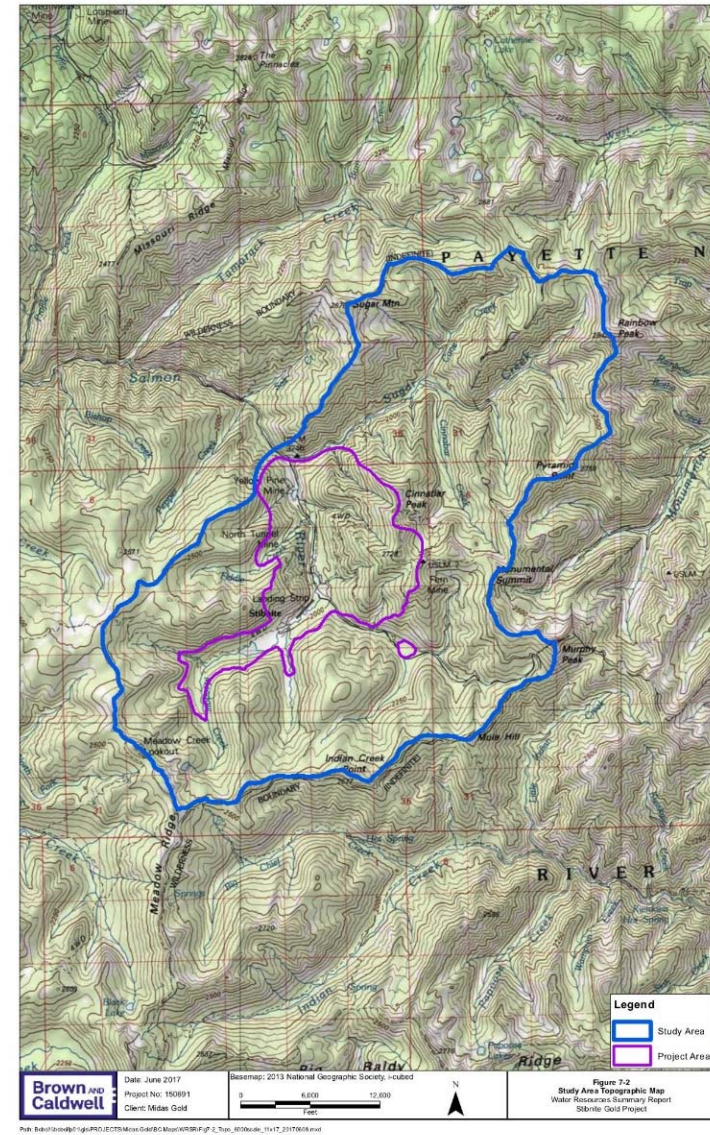
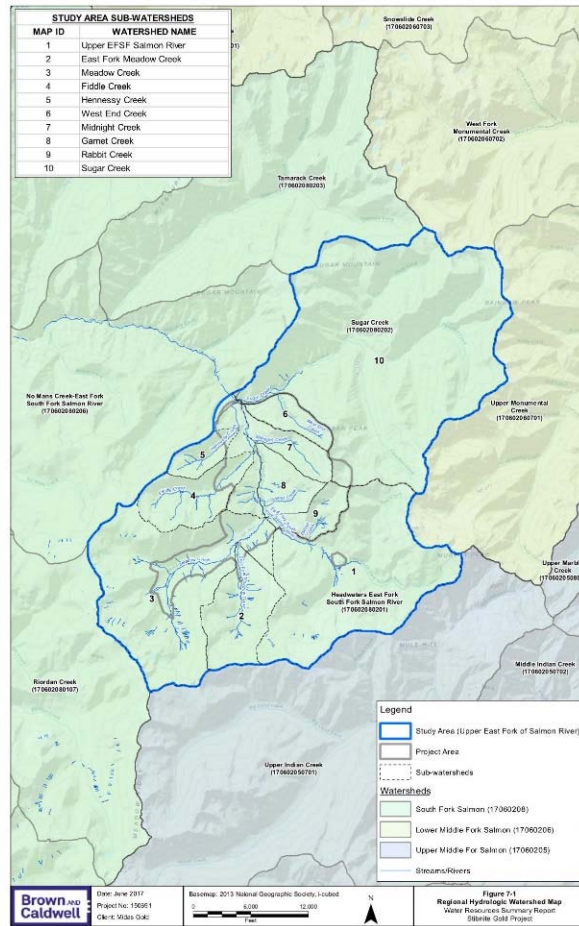
62

- Runoff Volume Assessment completed for storm events ranging from 1-year to 100-year.
  - Very conservative projections
  - Independently addresses each mine pit and DRSF
  - Independently addresses snowmelt and summer rain event conditions
  - Design runoff flows range from <1 to 555 cfs, with highest runoff predicted for 25-year storm at 450 cfs.
  - Currently does not address:
    - timing of runoff (storm hydrograph) or antecedent conditions.
    - storage within pits or transfer of water among areas, thus predicted runoff volumes are not necessarily representative of expected effluent volumes.
  - Midas is evaluating most appropriate approach/tools to address these issues





# Water Quantity





# Water Quantity

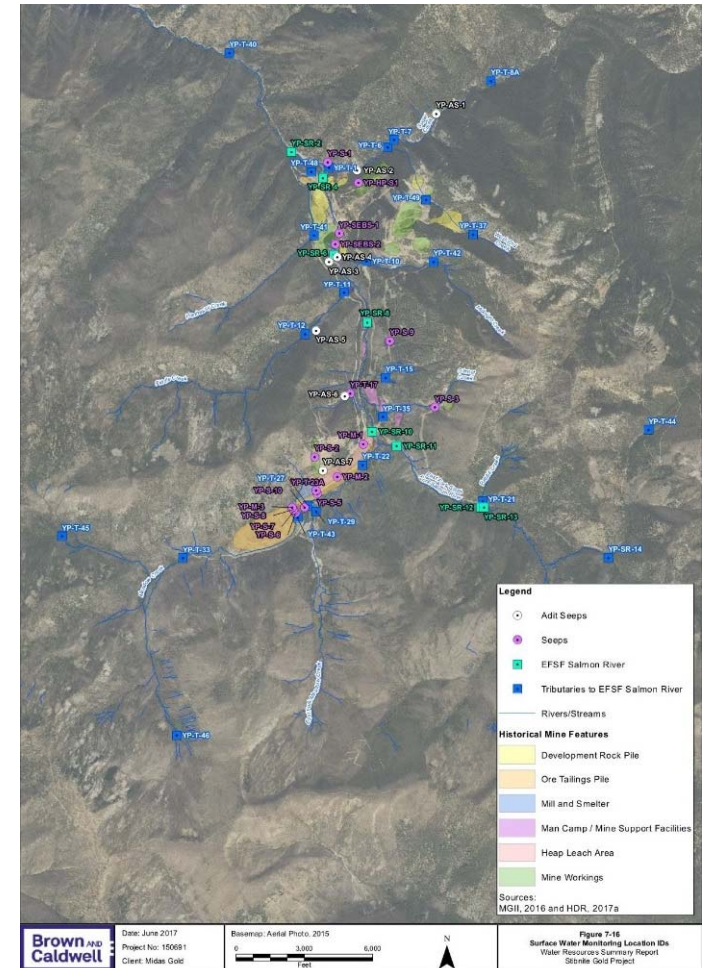
- Water Balance developed for the proposed mining and reclamation program
  - Spreadsheet-based
  - Highly detailed for mine planning purposes
  - Month-by-month depiction of water quantities associated with process flow diagram
  - Currently does not:
    - address NPDES outfalls independently (does not provide specific discharge estimates)
    - provide for sub-monthly timeframe considerations
    - include water quality considerations
  - Midas is evaluating the most appropriate approach/tools to address these issues
- Mine pit and mill outfalls are expected to discharge only intermittently in response to precipitation through much of the mine life.
- Process water system is expected to be zero-discharge until mine closure





# Existing Water Quality

- Extensive baseline sampling by Midas at the site
  - 32 perennial stream stations
    - Monthly sampling April 2012 to July 2014
    - Quarterly sampling August 2014 to present
  - 23 seep and spring stations
    - Quarterly sampling April 2012 to present
  - 6 field parameters measured
  - 41 laboratory parameters measured in all samples
  - 27 additional constituents measured in all quarterly samples
  - Sampling program conducted under a QAPP reviewed by EPA, IDEQ and USFS

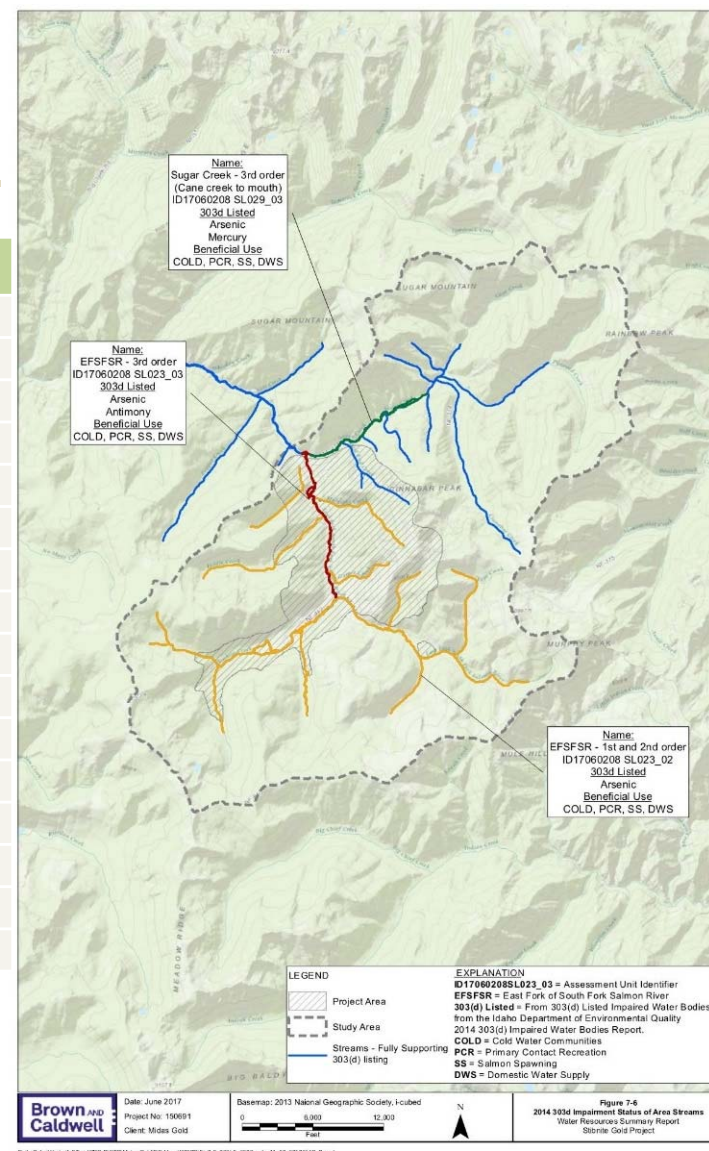




# Existing Water Quality

## Parameters Included in Baseline Surface Water Study

<b>Laboratory Analytes</b>			
	Chromium III	Nickel	
Alkalinity	Chromium VI	Nitrates	
Aluminum	Cobalt	Nitrites	
Ammonia	Copper	N, total	<b>Field Measurements</b>
Antimony	Cyanide, free	Phosphorus (P)	Color
Arsenic	Cyanide, total	Potassium	Dissolved Oxygen
Arsenic III	Cyanide, WAD	Selenium	pH
Barium	Hardness	Silver	Conductivity
Beryllium	Iron	Sodium	Temperature
Bicarbonate	Fluoride	TDS	Turbidity
Boron	Lead	TSS	
Cadmium	Magnesium	Sulfate	
Calcium	Manganese	Thallium	
Carbonate	Mercury	Vanadium	
Chloride	Methyl mercury	Zinc	
Chromium, total	Molybdenum		





# Potential Treatment

- Outfalls 1, 2 and 3
  - Anticipated contact water quality could be handled by an **iron co-precipitation process**, perhaps with **additional polishing**
- Outfall 4
  - Domestic wastewater treatment
  - **Biological membrane reactor** is a potential treatment technology
- Outfall 5
  - Dewatering Tailings Storage Facility for closure
  - Expected to be similar to Outfalls 1, 2 and 3
  - Concentrations of some constituents may be higher
  - Data collection during operation period will allow for design of suitable treatment process
- Midas already has a permit for a treatment system to generate reuse-quality water
  - Facility is located at Mill Site; has not yet been used





# Effluent Water Quality

- Parameters of primary concern (i.e., potentially requiring treatment)
  - Mining-Related
    - Antimony
    - Arsenic
    - Conductivity
    - Mercury
    - Nitrogen and carbon by-products of cyanidation (not an issue until closure)
  - Domestic wastewater
    - BOD
    - Conductivity
    - Dissolved oxygen
    - Fecal coliforms
    - Nitrogen
    - Phosphorus





# Issues to Consider

- Level of detail and approach to hydrology, treatment and quality analyses
- Ambient/Legacy Water Quality Issues
  - Many are outside the area that would be subject to the Individual NPDES permit
- WQBEL Analysis
- Rapid Infiltration Basins
  - Possible means of disposing of excess raw groundwater from Hangar Flats dewatering
- Timing of Inclusion of Specific Outfalls in NPDES Permit
  - Outfall 5 – Tailings Storage Facility – zero discharge expected until closure
- Anti-degradation Policy Considerations
- Need for Mixing Zones, Variances or other relief mechanisms
- EFSFSR Diversion During Operations
  - Tunnel





# EFSFSR WATER DIVERSION DURING OPERATIONS

70

- To restore fish passage during mining and to allow re-mining and reclamation of Yellow Pine Pit, Midas proposes to construct a tunnel around the west side of the pit
- Approximate 15'x15' passage with baffles and pool areas for fish to rest
- EFSFSR channel to be restored during reclamation
- Flow reestablished in to restored channel and tunnel sealed





# ESA Considerations

- Listed Species known from the area:
  - **Aquatic**
    - **Snake River spring/summer Chinook Salmon** (Threatened) – known from the site
    - **Snake River Basin Steelhead** (Threatened) – known from the site
  - **Terrestrial**
    - **Canada Lynx** (Threatened) – not observed on-site and little on-site habitat
    - **North American Wolverine** (proposed Threatened) – observed on-site in 2015
- Critical Habitat
  - Several streams associated with the site designated as Critical Habitat for
    - **Snake River spring/summer Chinook Salmon**
    - **Snake River Basin Steelhead**
    - **Bull Trout**
- Former mining operations created physical barriers to upstream spawning migration





# Anticipated NEPA Timeline

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- Notice of Intent for EIS Preparation: Q2 2017
- Scoping Period: Q3 2017
- Draft EIS: Q3 2018
- Public Comment Period: Q3 2018
- Final EIS/Draft ROD: Q4 2018
- Record of Decision Preparation: Q2 2019



# Target NPDES Permitting Timeline

## **For Individual Industrial Wastewater Permit**

- NPDES Industrial Wastewater Application to EPA & DEQ: Q3 2017
- Completeness Review Completed and Issuance of Request for Additional Information: Q4 2017
- Midas Response to Request for Additional Information: Q1 2018
- Draft permit and Factsheet Issued; Public Comment Period: Q3 2018
- Midas Response to Request for Additional Information from Public Comment: Q3 2018
- Notice of Issuance of Permit: Q4 2018

**CGP and MSGP Notice of Intent packages would also be submitted for review early in the above timeline**



# DISCUSSION





RESTORE THE SITE

FOR MORE INFORMATION:

[WWW.MIDASGOLDIDAHO.COM](http://WWW.MIDASGOLDIDAHO.COM)

 [facebook.com/midasgoldidaho](https://facebook.com/midasgoldidaho)

 [@MidasIdaho](https://twitter.com/MidasIdaho)



**MIDAS** GOLD



# COMPLIANCE WITH NI43-101

76

The technical information in this presentation (the “Technical Information”) has been approved by Stephen P. Quin, P. Geo., President & CEO of Midas Gold Corp. (together with its subsidiaries, “Midas Gold”) and a Qualified Person. Midas Gold’s exploration activities at Stibnite Gold were carried out under the supervision of Christopher Dail, C.P.G., Qualified Person and Exploration Manager and Richard Moses, C.P.G., Qualified Person and Site Operations Manager. **For readers to fully understand the information in this presentation, they should read the Pre-Feasibility Study Report (available on SEDAR or at [www.midasgoldcorp.com](http://www.midasgoldcorp.com)) in its entirety (the “Technical Report”), including all qualifications, assumptions and exclusions that relate to the information set out in this presentation that qualifies the Technical Information. The Technical Report is intended to be read as a whole, and sections or summaries should not be read or relied upon out of context. The technical information in the Technical Report is subject to the assumptions and qualifications contained therein.**

**Mineral resources that are not mineral reserves do not have demonstrated economic viability. Mineral resource estimates do not account for mineability, selectivity, mining loss and dilution. These mineral resource estimates include inferred mineral resources that are considered too speculative geologically to have economic considerations applied to them that would enable them to be categorized as mineral reserves. There is also no certainty that these Inferred mineral resources will be converted to the Measured and Indicated categories through further drilling, or into mineral reserves, once economic considerations are applied.**

Section 2.3 of NI 43-101 states that: Despite paragraph (1) (a), an issuer may disclose in writing the potential quantity and grade, expressed as ranges, of a target for further exploration if the disclosure

- (a) states with equal prominence that the potential quantity and grade is conceptual in nature, that there has been insufficient exploration to define a mineral resource and that it is uncertain if further exploration will result in the target being delineated as a mineral resource; and
- (b) states the basis on which the disclosed potential quantity and grade has been determined.

The mineral resources and mineral reserves at the Stibnite Gold Project are contained within areas that have seen historic disturbance resulting from prior mining activities. In order for Midas Gold to advance its interests at Stibnite, the Project will be subject to a number of federal, State and local laws and regulations and will require permits to conduct its activities. However, Midas Gold is not aware of any environmental, permitting, legal or other reasons that would prevent it from advancing the project.

The PFS was compiled by M3 Engineering & Technology Corp. (“M3”) which was engaged by Midas Gold Corp.’s wholly owned subsidiary, Midas Gold, Inc. (“MGI”), to evaluate potential options for the possible redevelopment of the Stibnite Gold Project based on information available up to the date of the PFS. Givens Pursley LLP (land tenure), Kirkham Geosystems Ltd. (mineral resources), Blue Coast Metallurgy Ltd. (metallurgy), Pieterse Consulting, Inc. (autoclave), Independent Mining Consultants Inc. (mine plan and mineral reserves), Allen R. Anderson Metallurgical Engineer Inc. (recovery methods), HDR Engineering Inc. (access road), SPF Water Engineering, LLC (water rights) and Tierra Group International Ltd. (tailings, water management infrastructure and closure) also contributed to the PFS. Additional details of responsibilities are provided in the technical report filed on SEDAR in December 2014. The PFS supersedes and replaces the technical report entitled ‘Preliminary Economic Assessment Technical Report for the Golden Meadows Project, Idaho’ prepared by SRK Consulting (Canada) Inc. and dated September 21, 2012 (PEA) and that PEA should no longer be relied upon.

## NON-IFRS REPORTING MEASURES

“Cash Costs”, “All-in Sustaining Costs” and “Total costs” are not Performance Measures reported in accordance with International Financial Reporting Standards (“IFRS”). These performance measures are included because these statistics are key performance measures that management uses to monitor performance. Management uses these statistics to assess how the Project ranks against its peer projects and to assess the overall effectiveness and efficiency of the contemplated mining operations. These performance measures do not have a meaning within IFRS and, therefore, amounts presented may not be comparable to similar data presented by other mining companies. These performance measures should not be considered in isolation as a substitute for measures of performance in accordance with IFRS.